



PUBLIC WORKS DEPARTMENT
MADRAS PRESIDENCY

ADMINISTRATION REPORT

FOR THE YEAR 1930-31

PART II—IRRIGATION

423

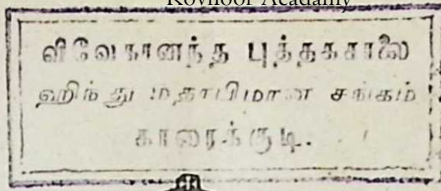
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MADRAS

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PUBLIC WORKS DEPARTMENT MADRAS PRESIDENCY

ADMINISTRATION REPORT

FOR THE YEAR 1930-31

PART II—IRRIGATION

CHAPTER I.

Progress of Irrigation in the Madras Presidency till 1931.

This chapter has been prepared specially for the present report for general information.

2. *Area cropped and area irrigated.*—A good proportion of the area cropped in the several districts of this Presidency is entirely dependent upon the rainfall. The area protected by irrigation amounts to 19·3 per cent the highest percentage obtaining in Tanjore and Godavari where it is as high as 60 per cent, while the lowest which obtains in Bellary and Anantapur, is as low as 2·0 and 2·9, respectively. The total area cropped comes to nearly 40 millions of acres of which the area irrigated is nearly 7·5 millions of acres.

3. *Rainfall and its characteristics.*—The average rainfall in this Presidency varies from 29 inches as a minimum to 44 inches as a maximum, with a mean of 37·6 inches. The highest average for any one district excluding the West Coast and the Nilgiris is 70·64 inches in Chingleput, while the lowest is 19·7 inches in Anantapur. The total rainfall in any one year is as high as 77 inches in Tanjore and as low as 11 inches in Anantapur. The coastal districts which are subject to cyclonic rainfall have rainfalls averaging to 40 inches and over, while those in the interior get less, the figures for the Ceded districts being the lowest.

Its chief characteristics are not only its unequal distribution over the Presidency as noted above, but also its irregular distribution throughout the seasons and its liability to failure or serious deficiency. When the average rainfall is high, any deficiency

experienced might not affect so much the successful growing of a dry crop though it cannot be deemed as absolutely secure against the uncertainties of the seasons; where the average is low, cultivation without irrigation becomes practically risky if not impossible. It is largely in order to remove the above disability the irrigation systems have been constructed, the most important factor which governs their introduction being an *adequate water-supply*.

4. *Early British works*.—Even prior to the advent of British rule, irrigation from tanks and inundation channels had for many centuries been extensively practised in this province. The earliest improvements undertaken by the British Government were directed towards the extension of the area irrigated by the Cauvery which was already controlled for the purposes of irrigation by the construction of a weir known as the *Grand Anicut*, a work of considerable antiquity dating from the times of the Chola Kings. The next undertaking was the construction of the Godavari system which was completed in 1846–47, and it was followed closely after by the construction of the Kistna system in 1855–56. These two systems have been of untold value to the tracts they irrigate and what was formerly one of the areas most liable to famine is now an expanse of paddy fields broken by gardens of fruit-trees. Failure of crops is practically unknown, and the main canals furnish an excellent and cheap means of transport.

5. *Madras Irrigation Company's canal*.—In 1863 a company known as the “Madras Irrigation Company” with a capital of one million sterling commenced the construction of an anicut across the Tungabhadra and a canal therefrom, 190 miles in length now known as the Kurnool-Cuddapah canal, as forming part of a much larger scheme and estimated to cost £550,000; but long before it was completed the whole of the capital of the company had been spent and work had thereafter to be carried on, on a loan of £600,000 from the Secretary of State. On the completion of this section in 1871 the work had to be stopped for want of funds. The anticipations were not realized and the revenue failed from year to year to cover the working expenses. To avoid further liabilities the Government were compelled to buy out the company for £1,185,500 in addition to which a dead loss owing to debts abandoned of $1\frac{1}{2}$ millions sterling was incurred. The scheme was thus a failure from the beginning to end. The total sum at charge on account of the scheme is Rs. 234 lakhs (capital cost) + 366 lakhs (accumulated arrears of interest on capital) = 600 lakhs. It irrigates only 50,000 acres to 80,000 acres yielding a net revenue of Rs. 1.77 lakhs which is Rs. 6.1 lakhs less than the interest charges.

6. *Other works of magnitude.*—In 1866, an important change in policy took place, the Government of India intimating their intention of carrying out large works of a remunerative nature from loan funds, and during the next decade, several anicut works were constructed on the Gadilam and Vellar in South Arcot, Penner in Nellore and Tungabhadra in the Ceded districts.

Early storage works.—Further extensions of irrigation necessitated the construction of new storage works, and four such works, viz., the Kanigiri reservoir in Nellore, Barur tank in Salem, the Rushikulya system with its reservoirs at Russellkonda and Surada in Ganjam, and the Periyar lake in Madura were constructed within the next twenty years.

Improvement of old works and the construction of more new projects.—Then came the period when considerable improvements were effected in various existing systems, viz., the Cauvery and Lower Coleroon in Tanjore and the Pelandorai and Shatiatope systems in South Arcot. This was followed by the construction of five new projects of considerable magnitude, viz., the Nagavalli river channel in Vizagapatam, Mopad reservoir in Nellore, Bhavanasi tank in Guntur, Divi Pumping in Kistna and Toludur reservoir in South Arcot.

More recently four more schemes were taken up, viz., the extension of Basavanna channel in Bellary district, Polavaram Island project in Godavari, the Kattalai scheme in Trichinopoly and the Cauvery-Mettur project, the last one, being by far the most important costing over 7 crores of rupees will improve the water-supply to the existing irrigation under the Cauvery as well as bring in a substantial addition of 3 lakhs of acres to the area irrigated. Of the above, the Rushikulya system, Mopad reservoir and Bhavanasi tank were constructed from current revenues for the protection of the affected tracts from famine. Others were and are being financed from loan funds.

7. *Classification of Government irrigation works.*—The irrigation works of this Presidency may be divided into two main classes, viz., those dependent throughout the season on the natural supplies of the rivers from which they have their origin and those provided with artificial storage. There are 30 works belonging to the former category with a total irrigation of 3·81 million acres, and 22 works belonging to the latter, with a total irrigation of 0·36 million of acres, besides the numerous minor works 36,000 in number which lie scattered throughout the Presidency and irrigate on the whole 2·60 million of acres, the total under all heads coming to 6·77 million acres.

For the purpose of determining the source from which the funds for the construction of Government works are provided, they were originally divided into three classes, viz., major productive, major protective and minor works. The main criterion to be satisfied before a work can be classed as productive is that it shall within ten years of the completion of construction, produce sufficient revenue to cover its working expenses and the interest charges on its capital cost. These works are financed from loan funds. Protective works were constructed primarily with a view to the protection of precarious tracts and to guard against the necessity for periodical expenditure on the relief of the population in times of famine. They were financed from the annual grant for famine relief and insurance and were not directly remunerative.

It is difficult to define the class of minor works otherwise than by saying that works not classified either as productive or protective are classified as minor works. They include many small tanks and channels scattered throughout, and are collectively as important as the major works in this Presidency, their total number being 36,000. A few of the more important of these minor works constructed by the British Government were classified differently and capital and revenue accounts were kept for them. They numbered in all 40, of which some, which were found sufficiently paying, were relegated to the category of major productive works.

8. *Extent and growth of irrigation.*—There has been a steady growth in the area irrigated by productive and protective works which has been more than doubled during the sixty years ending 1930–31 as shown by the following figures :—

Year.				Area irrigated in acres (in the two seasons).
				LAKHS.
1866–67	...	...	...	15.47
1876–77	...	...	...	17.88
1886–87	...	...	...	21.15
1896–97	...	...	...	26.09
1906–07	...	...	...	30.43
1916–17	...	...	...	35.75
1926–27	...	...	...	40.35
1930–31	...	...	...	41.77

The completion of the Cauvery-Mettur project which was taken up in 1925 will bring a substantial addition of over 3 lakhs of acres to the area irrigated. The area irrigated by minor works

for which capital and revenue accounts are not kept, was as much as 2.25 million acres which was the average for the ten years ending with 1,900 and it rose to 2.52 million acres within the next fifteen years and is now 2.60 million acres.

9. *New classification.*—Since 1922 the system of classification has been altered and it is now possible to finance any work of public utility from loan funds. The classes of protective and minor works have been abolished, all works being classified as either productive or unproductive without reference to the source whence the funds for their construction were provided. Under this classification the number of productive works rose to 24 with a subsequent increase to 28 in 1930-31, inclusive of the Cauvery-Mettur project which is still under execution. The important works are Godavari, Kistna and Cauvery Delta systems, Pennar River Canals system, Shetiatope Anicut system, Tirukkoyilur Anicut system, Palar, Poiney and Cheyyar Anicut systems, Periyar system, Srivaikuntam Anicut system, Divi Pumping, Toludur reservoir, Polavaram Island, Kattalai scheme and Cauvery-Mettur project.

The area charged as irrigated in both the seasons was 3,795,972 acres as a maximum so far and the net revenue rose to 97.18 lakhs in 1923-24 representing a return of 13.70 per cent on the capital outlay of 709 lakhs, the total net profits till that year amounting to Rs. 24.24 crores.

Owing to the large expenditure incurred in connexion with the Cauvery-Mettur project year after year since 1924, the capital outlay on productive works has gone up to 1,265 lakhs in 1930-31 with a corresponding reduction in the percentage of return to 6.17. If the Cauvery-Mettur project is excluded, the return in 1930-31 rises to 9.49 per cent.

Under the head 'Unproductive' there were as many as 29 works in 1923-24 with a total capital outlay of 404 lakhs and an accumulated arrears of interest charges amounting to 425 lakhs. The area irrigated was 289,334 acres with a gross revenue of 10 lakhs. The working expenses amounted to 4 lakhs and the net revenue fell short of interest charges by 8.88 lakhs of which 5.65 lakhs is on account of Kurnool-Cuddapah canal.

The more important works of this class are Kurnool-Cuddapah canal, Madras Water-supply and Irrigation system, Rushikulya system, Nagavalli River system, Muniyeru River system, Bhavanasi tank, Venkatapuram and Siddapuram tanks, Basavanna channel extension, Hajipuram and Ponnalur tanks and Mopad Reservoir project. There have been slight alterations since and

the financial position remains unaltered excepting for the fact that the arrears of interest charges goes on accumulating by about 9.5 lakhs every year, the total figure to end of 1920-31 being 487 lakhs.

Minor works.—As already stated, a few of the more important works for which capital and revenue accounts were kept were classed separately and there were as many as 40 works in this class. They were constructed at a cost of 204 lakhs and irrigated an area of 3.66 lakhs of acres, with a net revenue of over 4 lakhs which represents a return of 2 per cent on the capital outlay. When these works were reclassified as productive and unproductive, they disappeared as a class. There remain then the other minor works for which neither capital nor revenue accounts are kept. They are no doubt small works individually, but are important collectively, irrigating as they do nearly 3 million acres of land. These works which consist of 6,000 channels and 30,000 tanks were mostly constructed by Native Rulers in order to store and utilize local rainfall and the waters of small streams for purposes of irrigation. They in general were far from being in good order and the measures adopted by them for their maintenance were wholly inadequate.

10. *Tank Restoration Scheme.*—The birth of this scheme which has been in existence since 1883 may be traced to the Famine Commission of 1878 which recommended a systematic treatment of these minor works which were recognized to be below their state of full efficiency and incapable of effecting their proper amount of irrigation. The Irrigation Committee appointed by the Famine Commissioners recommended the division of these irrigation works into two general classes—

(1) Those irrigating 200 acres and above to be called 'Imperial' and placed in charge of Public Works Department.

(2) Those irrigating less than 200 acres to be termed 'Minor' and placed in charge of the Revenue Department.

Of the latter those irrigating more than 50 acres were to be repaired and handed over to the villagers for maintenance; those irrigating less than 50 acres were to be handed over forthwith, the masonry works in them being, however, repaired by Government and those irrigating less than 10 acres were to be left to the villagers.

Tank Restoration Scheme operations were commenced in April 1883 in the Madura district and on the results of investigation carried out therein, it was clearly shown that what had been done

there, could and should be done for the whole Presidency. Tank divisions and parties were organized for work in other districts and it was laid down that the professional treatment of these irrigation works was to be distinct from their conservancy when once brought to the standard of efficiency and that no real extensions and improvements were to be dealt with by the Tank divisions.

Maintenance of T.R.S. works.—An attempt was made to hand over the tanks after restoration to the villagers for after-maintenance; but the proposal was abandoned in 1889 and the Government of India in remarking upon this fact said that it was a question of serious and immediate consideration and called for a report as they considered it useless to continue to spend large sums on restoring works which the villagers refused to, and the Public Works Department could not, maintain. It however appeared inevitable that the duty of maintaining all the tanks restored should fall on Government; the Government of India were of opinion that the better course would be to restore and maintain all tanks irrigating over 50 acres and abandon the rest. As this proposal meant loss of revenue of over 4 lakhs, the limit of importance of irrigation works was fixed at 10 acres those irrigating less being abandoned. Even this proposal meant the giving up of a revenue of Rs. 54,000 derived from 9,700 tanks irrigating in the aggregate about 45,500 acres. Several proposals were under consideration for the maintenance of the tanks restored and after considerable discussion Government came to the conclusion that the imperial tanks should be maintained by the Public Works Department and the remaining ones should be maintained by the Revenue Department with a permanent minor irrigation establishment working under them. That establishment from small beginnings has gradually increased until a cadre costing Rs. 71,376 per annum for the whole Presidency was entertained in 1900. This establishment costs about 2 lakhs in 1931.

Costs of Tank Restoration Scheme operations.—The cost of restoration as worked out from the amount spent from the beginning of operation till 1901 came to 60 lakhs for tanks irrigating in the aggregate 750,000 acres or Rs. 8 per acre. Reviewing the position in 1930-31 the area under all works in the Presidency to be investigated under the Tank Restoration Scheme is calculated to be about 102,500 square miles. The area entered on at the end of 1930-31 is 93,570 square miles, of which the area investigated comes to 87,630 square miles and the estimates sanctioned amounted to 192 lakhs. In the area investigated works were completed for 83,900 square miles and the expenditure incurred

on works is Rs. 162.40 lakhs. The area investigated where works are in progress or are not begun is 4,500 square miles. On the basis of estimates sanctioned for the area investigated, the total cost for the entire area of 102,500 square miles works out 225 lakhs, while on the basis of the expenditure incurred on works in the area of 83,900 square miles, the total cost for the entire area comes to Rs. 200 lakhs in round figures. The total area irrigated by these works being 2.526 million acres, the cost per acre is still the same as that worked out at end of 1900. From the progress made during the last fifteen years it is found that an area of 11,200 square miles has been investigated and that the expenditure incurred on works amounted to 47 lakhs in an area of 16,700 square miles. At this rate it will take another fifteen years before the operations are likely to be completed.

11. *Well irrigation.*—Lastly comes the irrigation under wells which is fairly important in this Presidency, there being as many as 395,603 wells irrigating an area of 891,354 acres. Besides these, there are as many as 245,772 supplemental wells, that is wells situated within the ayacut of tanks to assist them in tiding over periods of intermittent supply. There is sufficient indication that the ryots are keenly alive to the advantages of well irrigation for raising garden crops and are not deterred by expense from sinking wells in suitable sites. In tracts liable to scarcity, they are also aware of their importance as a source of protection. The districts in which well irrigation has found great favour are Nellore, Cuddapah, North Arcot, South Arcot, Trichinopoly, Madura, Salem and Coimbatore. It is however in the last-named district the utilization of wells is more prevalent and successful than in any other part of the Presidency, the number of wells existing therein being 87,000 irrigating an area of 387,000 acres in round figures.

The facilities afforded by Government to give loans on easy terms for the sinking of new wells and the deepening of old wells have been availed of to some extent and later on the results of borings made by Government at the instance of the ryots who applied for them on payment of a small fee, have been of great use in sinking large and deep wells and erecting pumping installations in necessary cases to lift water for irrigation. More recently, the use of electric drive for pumping has already formed the subject of enquiry in connexion with the Government's hydro-electric schemes and it seems fairly certain that electric power which will become largely available after the completion of the Pykara scheme, will be availed of to a great extent at least in Coimbatore district, to start with, for lifting water from the numerous wells existing therein.

12. *Projects.*—A review of irrigation in this Presidency cannot be considered complete without some allusion to the several projects both large and small which were considered in the past, some of which have been sanctioned and executed or are in progress, while many others have been abandoned either because they are unremunerative or because they are found unsuitable for engineering reasons, the most important of which is the inadequacy of water-supply in all years.

Special Superintending Engineer's report on irrigation projects submitted to the Irrigation Commission and the work done subsequently.—The earliest attempt made in an organized manner to collect all available information regarding the irrigation projects which had already been proposed or contemplated was in 1901, when the Government of India appointed a Commission to enquire into the irrigational possibilities in India. A preliminary report was prepared in a comprehensive manner in accordance with the resolution of the Government of India by a Special Superintending Engineer to assist in the enquiry of the Commission. The appointment of the Special Superintending Engineer was continued thereafter for a period of four-and-a-half years for the investigation of the irrigation projects in this Presidency and the preparation of plans and estimates for the same.

In all 55 projects were investigated, of which twelve were abandoned after preliminary investigation. Two others were transferred to be dealt with by the regular establishment, while a third one was stopped pending final orders on the Tungabhadra. For the remaining forty projects, detailed estimates amounting to 896 lakhs were prepared and submitted. Of these seven were sanctioned for execution, ten others were ordered to lie over till final orders were passed on the Tungabhadra and the Kistna reservoir or other projects and the remaining ones were still under consideration.

Large projects.—Besides the above, as a result of the recommendations of the Irrigation Commission of 1903, three large projects on the Tungabhadra, Kistna and Cauvery were investigated in detail and plans and estimates were prepared and submitted to the Government of India. The Tungabhadra project had however to be abandoned on account of its prohibitive cost; the further consideration of the Kistna project was postponed as the Cauvery scheme was the more promising of the two and it was realized that it would be impossible to undertake both simultaneously. The estimates of the Cauvery-Mettur Project were being considered pending the settlement of a dispute in regard to the construction of a reservoir on the Cauvery by the Mysore Darbar.

Position reviewed in 1917 with reference to a motion in the Legislative Council.—Later on in 1917 on a motion in the Legislative Council recommending to the Governor in Council to take necessary steps to show a better rate of progress in the investigation and execution of irrigation projects, a list of projects that could be taken up for execution provided an adequate water-rate was guaranteed, was prepared. Reviewing the position then, it was found that 19 projects that were sanctioned were under execution or completed, 5 were sanctioned under famine relief, 5 were abandoned for engineering reasons, 7 were kept in abeyance pending verification of water-supplies, 21 were abandoned on financial grounds, 11 were held in abeyance pending completion of or orders to be passed on other projects and 20 others were still under consideration in office or investigation in the field.

Work done by the Projects division formed in 1921.—In August 1921, a projects division was formed to examine all live irrigation projects of the Presidency with a view to a final decision being come to on others. Of the 50 projects considered 10 were recommended as having a reasonable chance of being carried out in the near future if funds permitted.

Recommendations of the Royal Commission on Agriculture.—The position was again reviewed in December 1926 for the information of the Royal Commission on Agriculture and it was found that 15 small storage works were executed, 72 irrigation projects were investigated and abandoned, while 41 others were under examination, investigation or execution. The Commission specifically mentioned 8 projects in their report and suggested that immediate steps should be taken to improve and extend the Kurnool-Cuddapah Canal. They also recommended the complete investigation of the Tungabhadra project and the construction of the Cauvery and Kistna Reservoir projects.

Ceded Districts Irrigation Committee—Report submitted by and orders passed thereon.—At about the same time, orders were passed on the report submitted by the Ceded Districts Irrigation Committee which was appointed in the previous year in response to suggestions made in the Legislative Council to review the existing condition of irrigation in the Ceded districts and to advise Government whether any small schemes were worth further investigation or whether it is advisable to concentrate on big schemes as the Tungabhadra. In the report received, the Committee did not make a definite declaration in favour of either alternative to the exclusion of the other. They in fact recommended both, mainly on the ground, that the large project which they recommended could not cover the whole area. It was found that

the smaller schemes had all the defects of precarious sources, were less promising and suffered from the peculiar disadvantage that the storage of water in the upper reaches of rivers might have a very serious effect on the existing ayacuts of the river and spring channels lower down. They were therefore not taken up. The modified Tungabhadra project recommended by them was investigated by a special staff and the report prepared thereon is now with the Government. A reservoir on the Tungabhadra has long been recognized as affording the solution of the famine problem in the Ceded districts. But the difficulty lies in evolving a project which is practicable from the political, engineering and the financial points of view. The Committee advocated a project on lines differing considerably from those proposed twenty years ago. The authors of the earlier scheme were, the Committee observe, obsessed with the belief that the cultivator of black-cotton soil would not take water except in years of very scanty rainfall. This according to the Committee is to ignore the case of double or dufasal crops, which as stated by them will be grown readily, if water could be provided in the quantities required as is done in the case of the Tungabhadra channels in Bellary district. The primary modifications of the old Tungabhadra project however consist in the location of the reservoir higher up the river beyond the limits of the Hyderabad State and to couple it with another reservoir on the Kistna, so that the combined scheme might have a better chance from a financial point of view. The avoidance of submersion of Hyderabad territory in the case of the Tungabhadra reservoir is no doubt an advantage; but it is more than counterbalanced by an increase in cost. There are however other difficult questions to be settled regarding the sharing of waters of the Tungabhadra and Kistna and the submersion of Hyderabad territory in the case of the reservoir on the latter. Until some settlement is reached further progress seems well nigh impossible.

13. *Necessity for a higher water-rate.*—As a result of the consideration of the several projects investigated, it became increasingly clear that under present conditions unless the water-rate was increased to something like Rs. 10 to Rs. 15 per acre they were not likely to prove feasible from a financial point of view.

14. *Paddy cultivation versus dry crop irrigation.*—At this stage the Director of Agriculture who was asked to report on the suitability of the areas concerned for wet cultivation in the case of some of these projects has raised the general question whether it is advisable at all to go in for *wet land system of agriculture*, such as is found to obtain in the case of paddy cultivation as

against *garden cultivation* which also requires to be irrigated. He has also pointed out the disadvantages of the former in that (1) it limits the crop which can be grown to mostly swamp paddy and prevents rotation of crop, (2) it limits the area which can be protected against failure of season as paddy requires considerably more water than any other crop, (3) it creates an unsteady demand for labour, (4) it necessitates transfer of cattle involving loss of manure and results in unhealthy conditions of living in the villages, and last but not least, (5) it is not so remunerative as other crops and is conducive to the wastage of water. He has advocated the garden system of cultivation as being advantageous from every one of the points noted above and recommended the growing of groundnuts and Cambodia cotton on a very large scale.

Position of rice in Madras.—As an additional argument he has reviewed the position of rice in Madras and pointed out that production is already in excess of requirements and that rice is more extensively grown as an irrigated crop in this Presidency than in others, that the facilities for marketing it are very poor and that there has been a considerable fall in price recently with the result that it will be better to give it up wherever possible in favour of an irrigated dry crop. In other words projects for irrigating dry crops are advocated in lieu of those for irrigating paddy.

Experience of dry crop irrigation projects attempted in the past.—In the light of experience gained of projects framed for the irrigation of dry crops in the past especially in Nellore district, it is found that the water-supply admits of only half the commanded area or even less being irrigated in dry years, while in other years the rainfall is so abundant as to preclude the possibility of any dry crop being irrigated. It is also made clear that the essential factors required to ensure the success of dry crop irrigation projects are (1) the rainfall in the tract proposed to be irrigated should be scanty, (2) the storage or other supply for irrigation should be derived from a catchment where the rainfall is abundant, (3) the soil should be suitable for the growing of dry crops.

Government's decision on dry crop projects.—This question was also raised and discussed at the Collector's Conference held on 29th May 1930 at Ootacamund and in passing orders thereon Government have stated that they are against the preparation of any projects for dry crops only unless it is at the express desire of the ryots concerned. In connexion with the Lower Bhavani project in Coimbatore district an enquiry has been made as to how the water-supply available is to be utilized whenever there

is no demand for irrigating such dry crops, if the project is to be designed for irrigating dry crops only and what should be the allowance to be made for the irrigation of the various kinds of dry crops about which no reliable figures are available at present.

Proposals for experiments to collect statistics relating to dry crop irrigation.—The proposals made for conducting experiments in connexion with the requirements of irrigation for dry crops has been turned down by Government on the ground that the scheme is very ambitious and costly, it will take long before the results become available for use and they might not prove suitable for being applied universally and that it will be sufficient if the necessary observations are made in the agricultural farm at Coimbatore and similar farms elsewhere, as also on ryots' lands under wells. So unless and until these points are settled there seems to be little likelihood of any successful dry crop irrigation project being framed in this Presidency.

CHAPTER II—GENERAL.

The remarks in this chapter are as usual intended to bring the general information up to the end of the calendar year 1931.

2. *Cauvery-Mettur Project.*—The total expenditure amounts to Rs. 504·85 lakhs and the daily interest charges thereon work out to Rs. 7,269. The necessity for the speedy completion of the project is emphasized by this figure.

Estimate.—The revised estimate sanctioned by the Secretary of State in June 1929 amounts to Rs. 737·08 lakhs. The latest forecast according to the revised programme of expenditure submitted to Government comes to Rs. 684·15 lakhs. It is anticipated that there will be a saving of Rs. 52·93 lakhs.

Headworks—Staff.—There has been no important change in the staff.

Expenditure on establishment is kept as low as possible.

Preliminary works.—All the preliminary works have been completed.

Main dam—Excavation.—Excavation is practically completed. Rock has been exposed in reach 4120—4400 at level + 626. The portion between 130—220 can be taken up only after the 'diversion of feed lines from railway station to the Cauvery bridge' is completed. The diversion work is in good progress. It is expected to be completed in February 1932.

Sand.—Sand collection was nearly double the programmed quantity and is a record for the project. The floods did not materially affect the progress in collection. On the other hand, the exhausted shoals were replenished by fresh stock of sand by the floods which facilitated enormous collection during the last quarter.

Crusher dust is also used as far as possible in place of sand. Quantity of crusher dust expected to replace sand is about $\frac{3}{4}$ million cubic feet.

Stone—Right bank quarry.—The main and subsidiary quarries were developed to the full extent. The quarry under the charge of a Quarry Superintendent was reduced to a section charge about the second week of October 1931.

Left bank quarry.—The area of this quarry was extended by the addition of about 63 acres of reserve forest to admit of extensive operations due to the intensive work in the river-bed portion of the dam and the consequent increase of demand for stones from this quarry.

During the first quarter of the year a new quarry was opened out at the eastern end of the Chettamalai cutting.

Cement.—Cement is obtained from Shahabad at the rates approved by Government. Purchases to end of November 1931 were 131,261 tons against the contracted quantity of 158,000 tons. The increase is due to the accelerated programme of construction of dam during the year. Owing to the increase in the cubical contents of the dam, more cement than the contracted quantity is necessary. A revised agreement to take effect from 1st November 1931 is under conclusion with the suppliers, providing for the increased supply.

The installation of the cement sack cleaning machine has proved to be an economical achievement in the project work. Credit realized so far on account of return of gunnies is Rs. 2,05,289. Besides the quantity of cement obtained by the shaking of the gunnies is not insignificant. These two factors have reduced the cost price of cement.

The Madras and Southern Mahratta Railway have reduced the freight in cement on their railway by about As. 6-9 per ton with effect from 15th November 1931. This reduction is expected to result in a saving of Rs. 37,500 on the value of supply.

The net delivered cost of cement now works out to Rs. 51-15-0 per ton.

Surki.—Surki manufacture kept pace with requirements. A fifth disintegrator was erected during the year. A ton of surki now costs Rs. 5-4-0 against Rs. 8-4-0 at the beginning. Manufacture for the period January to November 1931 was 16,324 tons.

Concrete and masonry.—The dam is divided into several sections for purposes of concrete and masonry works. Work in the several sections is in varying stages of progress. Progress during the year was very satisfactory and above the programme. The highest average reached per day was 4,083 tons against 2,700 tons of last year. A record outturn of 17,636 units was reached during May 1931, the average daily outturn for the month working out to 4,700 tons.

About 54 per cent of the dam construction has been completed to end of November 1931.

River-bed work had to be stopped due to floods in the first week of July 1931 (4th July 1931). It was resumed in the second week of September 1931.

High-and low-level sluices.—Work on the high-level sluice is in the initial stages of progress while that on the low-level sluice has reached a fairly advanced stage. Excavation of the leading channel is also progressing rapidly.

Construction sluices.—Masonry is being raised in the construction sluice area and arrangements are being made to close the vents.

Hydro-electric section.—In spite of the several intricate details involved, the work of fixing hydro-electric pipes and other connected subsidiary works steadily progressed and have been practically completed. Screen platforms will be erected at top.

Surplus bridge.—This work is nearing completion. Arches, decking and parapets have been completed. Road on the bridge was opened for loco traffic from 15th July 1931. Erection of over-bridge girders for 12 spans, reinforced concrete flooring and certain minor items remaining to be done are likely to be completed before May 1932.

Cutting across the Chettamalais.—This work is intended for the diversion of the feed lines from the railway station to the Cauvery bridge through this cutting. About 374 units more of cutting remains to complete the work. The diversion is in good progress and is expected to be completed in February 1932.

(a) *Roads.*—The portion of the Mettur-Bhavani road from 2/5 to 10/0 along which runs the project sand tramline was taken over for maintenance from the Coimbatore District Board. The worst portions thereof are being remetalled.

(b) *Telephones.*—Besides local connexions all over the work, offices and officers' buildings, connexions between Trichinopoly, Tanjore and other stations of the Cauvery delta are now available at the local telephone exchange.

Special tools and plant.—Both the towers functioned satisfactorily during the year.

A heavy gale on the night of 22nd May 1931 caused serious damage to the Red Tower chutes. Work by the Red Tower had to be stopped consequently till 1st June 1931.

It is proposed to lift quarried stones in trucks on to the dam by means of the side jibs of the towers. Experiments being successful, two special electric winches for the purpose have been ordered. The proposed arrangement does not in the least interfere with regular concrete placing operations of the tower.

Electrical works.—Electrical works kept pace with requirements.

Bulk supply of energy from Mysore has been very satisfactory. Interruptions have been reduced to a minimum. Any that occurred did not interfere with the progress of work and therefore need no mention.

Consumption of energy from January to November 1931 was 4,572,033 wts., which gives a monthly average of 415,639 wts. The average rate paid to Mysore is 0.698 anna.

Rolling stock.—Four super-sentinel locos, and 75 three-cubic yard wagons were added to the rolling stock this year. The total number of sentinel locos is now 38.

Cranes and hoists.—There are three cranes and one hoist driven by steam power. A travelling crane of 6 tons capacity was purchased during the year from the Public Works Stores, Madras. All are working satisfactorily.

Mixers.—Four 1 cubic yard Victoria mixers and two second-hand electrically driven $\frac{3}{4}$ -cubic yard mixers were added to the stock of mixers at work during the year. There are now 9 Victoria, 4 Jaegar, 3 Rex, 1 (two-cubic yard) and 2 ($\frac{3}{4}$ -cubic yard) mixers on work. These exclude the 4 (2-cubic yard) mixers which form part of the concrete placing plant.

Climate.—There have been no unseasonal floods during the year. Consequently flood havoc was 'Nil.'

The highest discharge at Cauvery bridge was 169,600 cusecs on 21st August 1931.

Climate has been generally satisfactory. It was particularly conducive to the very good progress in the dam construction, generally throughout—particularly in the Central Cofferdam area. Rainfall for the period January to November 1931, was 22.85 inches. Number of rainy days during the same period was 68. Highest rainfall recorded was 2.88 inches on 4th November 1931.

Transport.—About 80,160 tons of materials were handled in the transport, of which cement alone represents about 65,290 tons.

Census.—The Imperial Census taken on 26th February 1931 indicates that the population of Mettur is increasing. This is indicative of the growing popularity of the township.

General.—Judging from the progress so far attained, it can be said that the work will be completed within the sanctioned estimate and the anticipated return on the outlay will be realized.

Canals—Territorial changes.—Owing to the completion of several of the major works, the No. 3 Division was closed and one subdivision was abolished on the 30th September 1931.

Progress of works—Main canals and branches—Grand anicut canal system—D. Regulators.—Of the four regulators and one head sluice in progress during the year, the one at the head of the Grand Anicut canal has been completed. Those at the head of the Rajahmadam branch canal at R.D. 19/25 and the Alivalam channel at R.D. 25/4656, a third one in the Rajahmadam branch canal, and the head sluice of the Pudupatnam branch canal have also been completed except for the fitting up of the shutters. In the case of the regulator across the Rajahmadam canal and that across the Grand Anicut canal at this off-take the fixing of shutters is in progress. For the other two works the shutters will be fitted up during the next year.

E. Falls and weirs.—All the nine drops in the Grand Anicut canal have almost been completed. Foot bridges have been constructed over three of these drops.

F. Cross drainage works.—Twenty-four major syphon aqueducts were in progress and of these 16 were completed in all respects and 5 almost completed. The others are in progress.

Out of the six minor syphons in progress, four have been completed and two are in an advanced stage of progress.

Two syphons at the tail-end of the canal have yet to be taken up.

G. Bridges.—The three railway bridges over the main canal have been completed. Minor items of work on one special class bridge and one 'B' class bridge were in progress. Six 'C' class bridges were also in progress. All these works have been completed or are nearing completion, excepting two foot bridges. Three more bridges in the lower reaches of the canal have not yet been taken up pending decision on the question of their necessity, which is under discussion with the Special Revenue Officer.

K. Buildings—Permanent.—A store-shed and lascars' shed at the head of the Alivalam channel were completed. The lascars' shed at the Pudupatnam regulator was also finished and the store-shed is nearing completion. No more buildings, permanent or temporary, except lascars' huts at head of Kalianodai branch canal, are necessary

Temporary.—Three subordinates' quarters and one inspection shed were constructed.

L. Earthwork—Grand Anicut canal—Reach from head to R.D. 16/00.—The two excavators 'Bhavani' and 'Cauvery' moved for a length of about 6 miles from R.D. 9/26 to 12/30, and excavated about 17,000 units of earthwork. From R.D. 12/30 they were taken to R.D. 15/79 where they recommenced work towards Tanjore. It is expected that the excavators will complete their work by 31st March 1932. The gaps left at sites of masonry works and irrigation channels will be completed by manual labour. The total quantity of earthwork done by manual labour is about 9,500 units.

Reach from R.D. 16/00 to 24/65.—About 7,500 units of earthwork costing 1.5 lakhs have been done. Excepting a small portion of the Grand Anicut canal from R.D. 12/30 to 12/35, the other portions from the head to R.D. 23/15 will be completed by the end of December 1931.

Reach from R.D. 24/65 to 30/00.—Nearly 22,000 units of work have been done against the estimated quantity of 31,961 units. The portion from R.D. 30/00 to 30/60 will be taken up next year.

M. Plantations.—In the completed portions of canal and channel banks, plantation is being done.

O. Miscellaneous.—In the upper reaches of the canal the work remaining to be done is the construction of pipe sluices which will be taken up shortly. Arrangements have also been made to fix shutters to all sluices taking off the main canal.

Kalianodai branch canal.—All masonry works and earthwork connected with the Kalianodai, Vadakkadu, Rajahmadam and Pudukpatnam branch canals have all been completed except certain bridges which have since been sanctioned and are in progress.

Vadavar system—2-Main canals and branches—Masonry works.—Four drops, one bed dam, one superpassage, four inlets and ten bridges were completed and one foot bridge is in progress.

L. Earthwork.—The widening of the Vadavar, raising its bank and deepening in places have been completed.

The excavation of the diversion of the Muthalamuthu vari and forming flood banks have also been finished and the vari is now functioning well.

M. Plantations.—Fruit-bearing trees planted are being maintained.

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Distributaries—C. Works.—All the masonry works in the upper reaches have almost been completed. In the lower reaches works in progress were completed, excepting some pipe sluices and end dams.

L. Earthwork.—The excavation of the undermentioned channels have been fully or almost completed except sectioning in the Sethubavachatram channel :—

Kalianodai branch channel
Vadakkadu branch channel } including minor works.

Rajahmadam branch channel.

Pudupatnam branch channel.

Sethubavachatram channel.

Pudupatnam No. 2 channel above railway line.

Vadavar system.—The construction of masonry works and excavation of channels have been completed. The excavation of a few rear channels and the fixing of pipe sluices remain to be done. These will be taken up shortly.

General.—The deficiency of rainfall has been very favourable to the progress of works which have been unusually rapid.

The works in the Vadavar system have been completed excepting the construction of pipe sluices and excavation of a few rear channels. This will be taken up shortly and finished by the end of June 1932, when the works will be handed over to the regular circle for regulation of water-supply and maintenance. The works under the Grand Anicut canal are expected to be completed by December 1933.

The works below the Pudupatnam canal head at R.D. 30/60 of the Grand Anicut canal have now been abandoned as investigation conducted by Special Officers has shown that the area originally proposed to be irrigated below the above point could be secured by extending irrigation in the upper reaches of the canal.

There will be no excess over the sanctioned estimate for the canal system but larger savings are anticipated.

There is no reason to anticipate that the results forecasted from the work will not be obtained.

3. *Extension of irrigation in the Kistna delta.*—The investigation continued during the year, and will be completed shortly. The division will continue only till March 1932.

4. *Tungabhadra Project.*—The question of reviving the project as a joint scheme was under the consideration of Government. The

results of the investigation made by the Government of His Exalted Highness the Nizam are awaited before further action can be taken in the matter.

5. *Thippayapalem Project*.—This project was ordered to be revived during the year and a special subdivision was also sanctioned for the purpose. But owing to the financial stringency the scheme was ordered to be deferred for the present.

6. *Cauvery delta*.—The investigation for the remodelling of sluices in the Cauvery and the Vennar in the Cauvery delta made good progress. All the main rivers and their branches were gauged during the year with a view to revising the rules for distribution at the various regulators.

7. *Kattalai Scheme*.—The estimates for the bed regulator and the high-level channel were sanctioned during the year, and a special division with a subdivision was formed for the execution of the scheme. But owing to financial stringency the division and one subdivision were abolished. The work on the North Bank canal and bed regulator was in progress during the year, while the work on the High-level Channel Scheme was ordered to be put in hand during 1932–33.

8. *Tank Restoration Scheme*.—Owing to financial stringency fresh investigation of Tank Restoration Scheme works was ordered to be stopped, and the newly formed Tank Restoration Scheme divisions and subdivisions were abolished. Hence investigations were purely confined to those which were already begun but not completed.

9. *Cauvery gaugings*.—As required by the Mysore-Madras Agreement of 1924 gaugings of the Hemavati and Lakshmanathirtha rivers at the standard stations Akihebbal, Unduvadi and of the power channel at Sivasamudram and the two low-level irrigation channels of the Krishnarajasagara were carried out jointly with the officers of the Mysore Darbar. The Devaroy and Chickdevaroy channels were also jointly gauged in connexion with determination of the coefficients of discharges of the Devaroy and Chickdevaroy Anicuts.

Contour survey of the waterspread of Krishnarajasagara for verification of its 'Capacity table' was also taken jointly and revised capacity tables were worked out for adoption, as also observations for volumetric determination of co-efficient of discharge of the sluices of the Krishnarajasagara.

The large increase in the work of the subdivision necessitated the formation of a division for six months from February 1931.

10. *Floods*.—The north-east monsoon rains were very heavy in certain parts of the Presidency and caused damages to river banks

and channels, and other irrigation works. In October, floods occurred in certain parts of the Ganjam and Vizagapatam districts, and though there were no serious damages a number of river banks, channels and tanks breached. On the 9th and 10th December heavy rainfall in Tinnevely brought in high floods which caused widespread damage. Almost all the channels and many tanks breached. The left flood bank above the Marudur Anicut and Sri-vaikuntam anicut breached in two places. About one-third of Sri-vaikuntam tank bund had been washed away. A special subdivision was formed for the closing of the breaches.

CHAPTER III.

M.R.Ry. Diwan Bahadur N. Swaminatha Ayyar Avargal continued to act as Chief Engineer for Irrigation till 3rd November 1930, when Mr. Greg returned from leave and assumed charge. Mr. Swaminatha Ayyar again took charge on the 3rd March 1931, when Mr. Greg was appointed Chief Engineer, General, Buildings and Roads. M.R.Ry. N. Parameswaram Pillai Avargal continued as Deputy Chief Engineer for Irrigation throughout the year.

2. Irrigation works in this Presidency are classified as shown below :—

(a) Works for which Capital and Revenue Accounts are kept—

A. Irrigation works—

(i) Productive;

(ii) Unproductive.

B. Navigation, Embankment and Drainage works—

(i) Productive;

(ii) Unproductive.

(b) Works for which Capital and Revenue Accounts are not kept—

(i) Irrigation works;

(ii) Navigation, Embankment and Drainage works.

The classification of a work as productive or unproductive is based upon the financial results of three consecutive years. There are no productive works in this Presidency under B. Navigation, Embankment and Drainage works.

3. The total outlay incurred on irrigation works and the total revenue realized during the year under report was Rs. 2,15,71,379 and Rs. 2,99,43,723 against Rs. 2,17,08,845 and Rs. 3,02,53,263, respectively, in 1929-30. The area charged as irrigated was

7,573,043 acres against 7,380,867 acres in the previous year.. The net revenue after deducting working expenses was Rs. 1,31,92,283 against Rs. 1,36,23,889 in the previous year. The figures of outlay include indirect charges. If the direct charges alone be taken, the expenditure during the year amounted to 203.55 lakhs against the budget allotment of 231.67 lakhs. The total cropped area in the Presidency during 1930-31 under all the chief food-grains and industrial crops both irrigated and dry was 39,193,201 acres or 66,052 acres less than in the previous year. The area irrigated by Government irrigation works alone (viz.) 7,573,043 acres was 19.32 per cent of the total cropped area. This was 192,176 acres more than in the previous year. This increase was due to the favourable character of the season.

4. *Financial results*—(i) *Productive works*.—The capital outlay during the year was Rs. 1,00,46,954 and to the end of the year Rs. 12,65,53,942. The area charged as irrigated was 3,903,558 acres and the estimated value of crops raised thereon was Rs. 22,32,88,351. The net revenue derived was Rs. 78,10,498 representing a return of 6.17 per cent on the capital outlay. The accumulated profits to the end of the year amounted to Rs. 27.93 crores.

(ii) *Unproductive works*.—The capital outlay during the year was Rs. 2,07,503 and to the end of the year Rs. 4,03,94,528. The area charged as irrigated was 273,916 acres and the estimated value of crops raised thereon was Rs. 1,25,42,182. The net revenue derived was Rs. 3,80,524 representing a return of 0.94 per cent on the capital outlay.

(iii) *Minor works for which Capital and Revenue Accounts are not kept*—(a) *Irrigation works*.—There are about 36,000 works of this class. The outlay incurred thereon and the revenue derived therefrom amounted to Rs. 38,45,510 and Rs. 1,04,16,178, respectively. The area charged as irrigated was 3,395,569 acres.

(b) *Navigation, etc., works*.—The outlay incurred and the revenue derived were Rs. 15,28,759 and Rs. 86,398 respectively.

5. *Irrigation works—Productive*.—(1) There are 28 works of this class. The canals of two of them—the Godavari and the Kistna delta systems—are used both for irrigation and navigation. The other works are for irrigation only.

(2) The total length of the main and branch canals of the productive systems at the end of the year was 3,749 $\frac{1}{4}$ miles. Of this length 889 $\frac{1}{2}$ miles were for irrigation and navigation combined and the remainder for irrigation only. The length of distributaries was 9,663 $\frac{3}{4}$ miles.

(3) The total area charged as irrigated was 3,370,966 acres first crop and 532,592 acres second crop against 3,375,353 and

521,039 acres respectively in 1929-30. The decrease under first crop occurred mainly under the Cauvery delta system, and the increase under the second crop under the Penner and Palar anicut systems.

(4) The capital outlay (direct and indirect) during the year was Rs. 1,00,46,954 against Rs. 1,02,88,737 in the previous year. The bulk of the expenditure was on the Cauvery-Mettur Project. The rest was incurred mainly on the Godavari and the Cauvery delta systems. Details of the works carried out are given in Chapter IV.

(5) The gross working expenses of the year amounted to Rs. 55,04,597 against Rs. 55,42,078 in the previous year.

(6) The gross revenue of the year amounted to Rupees 1,83,31,745 against Rs. 1,95,35,230 in 1929-30. The decrease occurred mainly under the Cauvery delta system where remissions were granted on a very large scale on account of the floods of November 1930.

(7) The net revenue derived, and the profit after deducting interest charges amounted to Rs. 78,10,498 and Rs. 28,50,100 against Rs. 89,67,046 and Rs. 45,72,799 respectively in the previous year. The net profit after deducting interest charges (viz.) Rs. 28,50,100 is 2.25 on the capital outlay of Rs. 12,65,53,942 against 5.96 per cent twenty-five years ago in 1905-06. The fall in the percentage of profit is due to heavy outlay on the Cauvery-Mettur Project which has not yet commenced to function. If this outlay is excluded the percentage rises to 3.4 per cent.

(8) The estimated value of irrigated crops raised during the year amounted to Rs. 22,32,88,351 against Rs. 26,49,53,145 in the previous year.

(9) The average revenue per acre amounted to Rs. 4.69 on the gross area and Rs. 5.55 on new irrigation. The working expenses per acre were Rs. 1.41 on the gross area and Rs. 2.22 on new irrigation.

(10) The remissions granted during the year amounted to Rs. 12,96,650 against Rs. 1,88,361 in the previous year. The areas affected were mostly under the Cauvery delta system, the Kattalai Right Bank canal and the Kistna delta system.

6. *Irrigation works—Unproductive.*—(1) The number of works of this class continued to be 27. The Kurnool-Cuddapah canal is used both for irrigation and navigation. The other works are used for irrigation only.

(2) The capital outlay (direct and indirect) during the year was Rs. 2,07,503 against Rs. 1,69,859 in 1929-30. This was incurred chiefly on the Rushikulya system, and the Basavannah channel.

(3) The total length of the main and branch canals at the end of the year was 716 miles, of which 120 miles were for irrigation and navigation combined and the remainder for irrigation only. The length of the distributaries was 664 miles.

(4) The area irrigated during the year was 273,916 acres against 276,712 acres in the previous year.

(5) The gross revenue amounted to Rs. 10,03,334 against Rs. 9,98,645 in 1929-30. The increase occurred chiefly in the Anamasamudram Beraperu, the Mopad, and the Markapur tanks.

(6) The gross working expenses amounted to Rs. 4,55,916 against Rs. 4,60,907 in 1929-30.

(7) The net revenue due to improvements amounted to Rs. 3,80,524 against Rs. 3,71,466 in the previous year. This represents a return of .94 per cent on the capital outlay of Rs. 4,03,94,528 to the end of the year. The net revenue (viz.) Rs. 3,80,524 fell short of interest charges by Rs. 9,67,875 of which Rs. 6,04,948 pertained to the Kurnool-Cuddapah canal. This deficit represents 2.39 per cent on the capital outlay. Against this however must be set the value of the crops produced under these works (viz.) Rs. 1,25,42,182.

(8) The average revenue per acre amounted to Rs. 3.66 on the gross area and Rs. 4.72 on new irrigation. The working expenses per acre were Rs. 1.66 on the gross area and Rs. 2.51 on new irrigation.

(9) The remissions granted during the year amounted to Rs. 6,412 against Rs. 10,552 in the previous year. The areas affected were mainly the Rushikulya and the Nagavalli river systems.

(10) The estimated value of crops amounted to Rs. 1,25,42,182 against Rs. 1,69,53,858 in the previous year.

7. B. *Navigation, Embankment and Drainage works—Unproductive.*—There are three works of this class (viz.) the Ganjam-Gopalpur canal, the Buckingham canal, and the Vedaranniyam canal the total length of which is 296½ miles. The gross receipts and charges amounted to Rs. 1,06,068 and Rs. 3,12,794 respectively against Rs. 95,288 and Rs. 3,35,978 in the previous year. There was thus a loss of Rs. 2,06,726 to Government on the working of these canals against Rs. 2,40,690 in 1929-30. The value of goods carried during the year was Rs. 67,50,507.

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8. *Navigation canals.*—Navigation was carried on as usual on the Dummagudem, Godavari, Kistna, Kurnool-Cuddapah, Buckingham, West Coast and Vedaranniyam canals. The total direct receipts amounted to Rs. 4.26 lakhs.

9. *Works for which Capital and Revenue Accounts are not kept—Irrigation works.*—The outlay incurred on, the area irrigated under, and the revenue derived from works of this class are compared below with the figures of the previous year, and the average of the previous triennium :—

	Outlay incurred.	Area irrigated.	Gross revenue.
	RS.	ACS.	RS.
During 1930-31	38,45,510	3,395,569	1,04,16,178
During 1929-30	37,19,733	3,207,763	95,38,758
Average of the triennium ending 1929-30	34,64,780	93,189,304	94,77,082

The excess expenditure during the year was due to repairs to damages caused by heavy breaches on account of the cyclone of November 1930. The increase in the area irrigated was due to the favourable character of the season.

10. *Tank Restoration Scheme works.*—The total area coming within the scope of Tank Restoration Scheme investigation is 102,500 square miles. The area of minor basins on which work had been commenced or completed at the beginning of the year was 93,570 square miles of which 87,630 square miles had been investigated. During the year under review an area of 829 square miles was investigated bringing the total to 88,459 square miles. The remaining 5,111 square miles have been under investigation. During the year an area of 605 square miles was entered upon for investigation. In the area investigated works were completed for 83,919 square miles and in the remaining area of 4,540 square miles works have been in progress or are yet to be begun. Thus about 86.30 per cent of the total area of 102,500 square miles affected by the scheme had been investigated up to the 31st March 1931, leaving on that date a balance of 14,041 square miles. The estimates sanctioned for Tank Restoration Scheme works during the year, amounted to Rs. 6,15,736 against Rs. 5,86,359 in the previous year.

The total amount of estimates sanctioned from the beginning of the Tank Restoration Scheme operations up to the end of the year was Rs. 1,91,64,586 against which the total expenditure incurred was Rs. 1,61,77,805 exclusive of charges for establishment, tools and plant. The expenditure during the year amounted to Rs. 2,50,372.

11. *Works for which Capital and Revenue Accounts are not kept—Navigation, etc., works.*—The outlay incurred on, and the

revenue derived from works of this class are compared below with the figures of the previous year and the average of the previous triennium :—

	Outlay incurred,	Revenue derived,
	RS.	RS.
During 1930-31	15,28,759	86,398
During 1929-30	15,13,597	85,342
Average of the triennium ending 1929-30	15,82,993	84,588

12. *Investigation of Projects.*—The estimate for the Jogudi reservoir project was still being revised. The Sithapalli reservoir project which was under investigation was ordered to be abandoned in May 1931.

The special division formed in 1929 for the investigation of short crop irrigation in the Kistna delta continued during the year. The discharges of the Kistna river were worked out up to 1930, and the detailed preliminary report on the possibilities of extension of irrigation in the delta supported by statistics was drawn up during the year. In the Kistna Eastern delta, field work in connexion with the extension of the East Bank canal, including an aqueduct across the Puligedda arm for irrigating by direct flow the Divi Island which is served by a pumping system now, and design and plans for almost all the masonry works were completed. In the Kistna Western delta a new high level channel-taking off from above the anicut on the right side of the river to irrigate about 26,500 acres was under investigation. Gaugings in connection with the Gundlakamma, Kandaleru and Mellavagu projects were continued during the year. Gauging was also in progress in connexion with a proposal to take a high level channel from above Bezwada at Mulapadu to irrigate lands in the upland taluks of the Kistna district.

A preliminary report and an approximate estimate for the modified Tungabhadra scheme were completed during the year. On an examination of the plans and estimates received for the Penner-Kumudavathi project in Anantapur district, it was found that results of gaugings taken for a further period of five years were necessary to come to a decision on the question of the availability of supply. The plans and estimates prepared for the Belahal and Bhimanakarai projects in the Bellary district were found incomplete and they were ordered to be revised. As regards the Kannepalli project, water-supply for direct irrigation from the Hagari river having been found scarce, proposals were under consideration for a channel for carrying flood supplies for storage purposes. The Duvvaleru project was ordered to be taken up for investigation.

Proposals were under consideration for extending irrigation in the Coimbatore district from the water of the Siruvani stream diverted through a tunnel into the Novyal river after meeting the requirements of the water-supply of Coimbatore town.

In connexion with the drainage improvements to the Shiyali taluk, plans and estimates for improvements to the Nallur and Kittianai Uppanar, and for the formation of a diversion bank for the Coleroon in the limits of Kattur and Mahendrapalli villages were prepared. A scheme for the remodelling of sluices and other improvements in the Cauvery delta was under investigation by a special division and the preparation of plans and estimates was in progress.

Consequent on the investigation of the proposals connected with the Kattalai scheme in Trichinopoly district estimates were sanctioned for the (1) construction of a bed regulator across the Cauvery at Kattalai, (2) excavation of a high level channel from the Right Bank canal, and (3) the excavation of a Left Bank canal. An estimate for the excavation of the Pudevathalai high level channel for the irrigation of sanded areas in the Murungapettai block was also sanctioned. A scheme for the restoration of the old course of the Uyyakondan channel in Tanjore taluk was under investigation.

13. *Character of the season.*—The south-west monsoon broke out in time in the year under review. In the latter half of June there were heavy showers in certain districts. The rainfall continued to be light and was below the average in July and August throughout the Presidency and in September it was fair. The north-east monsoon set in early and the rainfall was heavy throughout in October and November when it cleared off early in December.

The average rainfall of the Presidency for the year except the West Coast and Nilgiris districts was 43.12 inches against 35.66 inches in 1929-30, and 35.07 inches the average of the five years ending 1929-30.

14. *Floods.*—The highest flood in the Godavari river was 13.00 feet on the crest of the Dowlaishweram anicut on the 5th July 1930 against the recorded maximum of 17 feet in 1891 above the then crest level (the present crest being 0.75 foot higher). In the Kistna river the maximum flood was 10.8 feet on the crest of the anicut at Bezwada on the 10th July 1930 against the recorded maximum of 23.50 feet in October 1903. In the Tungabhadra the highest reading was 3.30 feet on the crest of the Sunkesala anicut on the 6th August 1930, the recorded maximum being 10.40 feet on the 31st October 1916. The maximum depth over the Adinimayapalli anicut across the Penner was 3.90 feet on the 5th October 1930, the highest recorded depth being 13.86 feet on the 26th October 1874. The Cauvery rose to 11.75 feet on the Cauvery dam north gauge on the 25th October 1930 against the recorded maximum of 14.65 feet on the 20th July 1924.

15. *Breaches and Accidents.*—The left trough wall of the aqueduct at 5/0 of the Mahanadi canal collapsed but temporary arrangements were immediately made and water was supplied for

irrigation. Breaches also occurred in the Kaliamba Nalla, in the Garibalagedda Wadada, Dusi, Purushottapur and Bhairy channels owing to the floods in June; but steps were taken promptly to supply water for transplantation. As a result of heavy floods early in July 1930, there was a serious breach at Ubalanka and both the Amalapur and Bank canals also breached in many places. These were repaired during the year. The cyclone of November 1930 did much havoc to the tanks and channels in the Madurantakam and Ponneri taluks of the Chingleput district; eighty-six tanks breached completely, and considerable damage was caused to the masonry works of several other tanks. The work of closing the breaches was in progress. Owing to heavy rains in October and November 1930 there were many breaches in the irrigation works in the North Arcot and Coimbatore divisions. A large number of tanks under the Cheyyar and the Palar anicut systems were damaged as a result of the cyclone in November, and the Palar anicut itself was extensively damaged. The repairs to the damaged tanks and the restoration of the anicut were in progress. In the Coimbatore district there were a number of breaches and all of them have been closed except the one in the left flank of the Oddarpalem anicut. Both the flood banks of the Bhavani breached and this saved the head works from being damaged. There were heavy floods in the Cauvery delta on account of the heavy rains of October, and there were also some breaches in the Aganda Cauvery right bank, and in the left bank of the Cauvery in Melur village limits. The breaches were closed and water was supplied for irrigation in time. A large number of tanks in the Villupuram, Tindivanam, and Gingee taluks of the South Arcot district breached as a result of the cyclone, and the repairs were attended to by a special staff. A large number of tanks in the Pattukkottai and Arantangi taluks also breached, and a special staff was sanctioned to attend to their restoration. The arch work of the Manakudi syphon in the Vennar division gave way owing to a deviation in construction but it was soon restored. Owing to heavy rains in October 1930, several channels and tanks in the Trichinopoly district breached. Among these were the Kattalai Right Bank canal and the Uyyacondan channel and the Panjapatti reservoir. All the breaches were closed promptly, except in the case of the last, and the proposal made in connexion with it is under the consideration of Government.

16. *Irrigation Advisory Boards.*—All the Advisory Boards except that of the Kistna Eastern delta took a certain amount of interest in irrigation matters and their working was on the whole satisfactory. Meetings of these Boards were however not held once a quarter owing to there being no subject of sufficient importance for discussion, to lack of interest or to want of quorum. The Advisory Board for the Cauvery delta was reconstituted during the latter

half of the fasli. Separate Advisory Boards for the Godavari Eastern and Central deltas were ordered to be formed during the year.

17. *Irrigation Panchayats*.—Certain irrigation channels in the Godavari delta continued under the management of the panchayats. The working of the panchayats was on the whole satisfactory.

CHAPTER IV—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

A. IRRIGATION WORKS—PRODUCTIVE.

No. 1, Ganjam Minor Rivers System.

1. There was no expenditure under capital account.

2. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 1,703 and Rs. 71,950 against Rs. 2,103 and Rs. 46,129 respectively in the previous year. The heavy expenditure under the latter head was due to extensive repairs necessitated by breaches caused by floods during the year.

3. The area irrigated was 66,783 acres first crop and 3,552 acres second crop against 65,993 acres and 2,551 acres respectively in 1929-30. The extent of sugarcane cultivation was 331 acres against 226 acres in the previous year.

4. The gross revenue amounted to Rs. 64,630 and the working expenses to Rs. 93,595. The net loss after paying interest charges was Rs. 38,530 which is 13.42 per cent of the capital outlay against Rs. 3,505 or 1.22 per cent in 1929-30. The heavy deficit was due to the large expenditure under 'Maintenance and repairs'.

No. 2, Godavari Delta System.

5. The capital outlay during the year amounted to Rs. 2,66,959. The following important works were carried out during the year:—

EASTERN AND CENTRAL DELTAS.

(1) *Improvements to the Kovvur-Manjair Junction canal* (Estimate Rs. 1,54,068).—There was a small expenditure of Rs. 184 and the work was completed during the year.

(2) *Remodelling the Teki side channel* (Estimate Rupees 13,200).—The outlay during the year was Rs. 3,934 and to the end of the year Rs. 11,310. The work has almost been completed.

(3) *Reconstruction of the bridge on the Bank canal near Kotipalli* (Estimate Rs. 24,700).—The outlay during the year was Rupees 8,772 and to the end of the year Rs. 9,415. The work is in progress.

(4) *Remodelling the Ananthavaram channel* (Estimate Rupees 11,400).—The outlay during the year was Rs. 203 and to the end of the year Rs. 5,274.

(5) *Constructing a separate head to the Amalapur canal and a new lock at the bifurcation of the Amalapur and Gannavaram canals* (Estimate Rs. 36,200).—The outlay during the year was Rs. 17,580 and to the end of the year Rs. 39,945. The work has almost been completed.

(6) *Improvements to Ramarajucodu and other drains* (Estimate Rs. 50,000).—The outlay during the year was Rs. 3,002 and to the end of the year Rs. 12,564. The work is in progress.

HEAD WORKS.

(7) *Improvements to the Head sluice at Vizeswaram* (Estimate Rs. 1,21,000).—The outlay during the year was Rs. 69,384 and to the end of the year Rs. 99,136. The work is in rapid progress and is expected to be completed by July 1931.

WESTERN DELTA.

(8) *Constructing a surplus weir at 35 miles 465 feet on the right bank of the Gostanadi and Velpur canal* (Estimate Rupees 10,800).—The outlay during the year was Rs. 1,002 and to the end of the year Rs. 8,988. The work is in progress.

(9) *Remodelling the Rameswaram channel branch of the Attili canal* (Estimate Rs. 13,060).—The outlay during the year was Rs. 3,318 and to the end of the year Rs. 3,392.

(10) *Excavating the Pothanur Project channel* (Estimate Rs. 43,752).—The outlay during the year was Rs. 19,454 and to the end of the year Rs. 23,132. The work is in progress.

(11) *Remodelling the Agadallanka channel* (Estimate Rupees 17,411).—The outlay during the year was Rs. 1,976 and to the end of the year Rs. 13,268.

(12) *Remodelling the Veeravasaram West side channel* (Estimate Rs. 20,600).—The outlay during the year was Rs. 6,379 and to the end of the year Rs. 12,208.

(13) *Improvements to the upper portion of the Yenamaduru drain* (Estimate Rs. 10,14,684).—The outlay during the year was Rs. 39,614 and to the end of the year Rs. 8,74,384. The work is in progress.

(14) *Remodelling the Peravalli West side channel and its branches* (Estimate Rs. 11,000).—The work was started during the year and an outlay of Rs. 2,633 was incurred.

(15) *Remodelling the Skinnerapuram channel* (Estimate Rs. 11,150).—The work was started during the year and an expenditure of Rs. 3,085 was incurred.

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6. *Working expenses—(a) Extensions and improvements.*—The expenditure was Rs. 96,195 against Rs. 76,429 in the previous year and Rs. 52,147 the average of the triennium ending 1929-30. The increase in expenditure was due to the cost of a motor launch purchased during the year and to payment of a portion of the cost of two new steamers ordered.

(b) *Maintenance and repairs.*—The outlay under the head was Rs. 8,23,627 against Rs. 7,67,225 in 1929-30 and Rs. 7,12,582 the average of the previous triennium. The heavy expenditure under the head was chiefly due to the closing of breaches in the Godavari flood bank caused by the floods in July 1930.

7. The navigation receipts and charges amounted to Rupees 1,76,681 and Rs. 1,23,995 against Rs. 1,70,620 and Rs. 1,30,113 respectively in the previous year. Under ton-mileage the figure was 14,815,000 against 14,478,838 in 1929-30. The value of goods carried was estimated at Rs. 5,84,49,517 against Rs. 8,50,06,571 in the previous year. The fall in the value of goods was due to the severe economic depression and also to the absence of traffic under 'Treasure.'

8. The area irrigated was as shown below :—

	Average of the triennium ending 1929-30.	During 1929-30.	During 1930-31.
	ACS.	ACS.	ACS.
First crop	795,264	802,111	799,350
Second crop	224,782	225,390	192,999

The extent of sugarcane cultivation was 6,074 acres against 5,632 acres in the previous year. The increase was due to the favourable character of the season.

9. The gross revenue and working expenses amounted to Rs. 42,11,833 and Rs. 14,57,015 respectively against Rs. 44,04,284 and Rs. 13,77,917 respectively in 1929-30. The profit after deducting interest charges amounted to Rs. 21,07,851 which is 11.93 per cent on the capital outlay against 14.22 per cent in the previous year.

10. The south-west monsoon broke out early in the year, i.e., in May 1930, and this was followed by heavy rains in June which caused heavy floods in the first week of July. The rainfall during the months of July, August and September was normal. The north-east monsoon rains in October and November was abnormally heavy, but did not affect the crops. There was practically no rains during the rest of the year after November.

As regards canal supply, it was far short of demand during the month of June owing to late rise of the river. The first crop irrigation season commenced by the second week of June and transplantation was practically completed by the end of August.

Supply of water in general was fairly sufficient and outturn of crops fairly good. But during the second crop season supply fell short of demand and was below the average and the available supply was equitably distributed by resorting to turns.

In the Western delta, the season was on the whole favourable with good rains. The dry crops irrigated and unirrigated did not fare very well and the first crop's yields are reported to be very poor generally due to water logging and insect pests.

The following table shows the dates of closure and the re-opening of canals in the Godavari delta and the Dummagudem canal :—

Canals,		Date of closure.		Date of re-opening.
Eastern delta canals	..	1st May 1930	..	7th June 1930.
Central delta canals	..	15th April 1930	..	30th May 1930.
Western delta canals	..	1st May 1930	..	1st June 1930.
Dummagudem canal	..	3rd April 1930	..	10th June 1930.

No. 3, Polavaram Island Project.

11. The work consists of four sub-works, viz., (1) Improvement to Bank canal, (2) constructing an aqueduct at Annampalli, (3) excavating channels in Polavaram island and (4) drainage protective works. Sub-works (1) to (3) have all been completed. As regards (4), drainage pipes were fixed wherever necessary and proposals were framed for the provision of drainage facilities for the whole project and these were under revision. Earthwork for these drains will be taken up after the estimates are sanctioned. The outlay on the project during the year was Rs. 41,444 and to the end of the year Rs. 15.44 lakhs against the estimated cost of Rs. 18.55 lakhs.

12. The outlay under ' Maintenance and repairs ' was Rupees 4,481 against Rs. 1,189 during the previous year.

13. The area irrigated was 10,979 acres first crop and 8 acres second crop against 9,027 acres and 5 acres respectively in 1929-30.

14. The gross revenue and working expenses amounted to Rs. 1,06,570 and Rs. 12,287 respectively against Rs. 81,484 and Rs. 5,597 in the previous year. The net revenue was Rs. 94,283. The profit after deducting interest charges was Rs. 12,376 which is 0.80 per cent on the capital outlay.

No. 4, Kistna Delta System.

15. The capital outlay during the year was Rs. 47,646. The following works were carried out during the year :—

(1) *Remodelling the Polraz canal second reach* (Estimate Rs. 11,685).—The outlay during the year was Rs. 205 and to the end of the year Rs. 10,038. The work was almost completed.

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(2) *Remodelling the Kaikalur branch of the Polraz canal* (Estimate Rs. 18,500).—The outlay during the year was Rs. 2,147 and to the end of the year Rs. 11,570. The work is in progress.

(3) *Remodelling and extending the Vatlur main channel branch of the Ellore canal* (Estimate Rs. 11,700).—The outlay during the year was Rs. 5,045 and to the end of the year Rs. 5,190.

(4) *Excavating the Vempad channel* (Estimate Rupees 1,05,066).—The work was started during the year and an outlay of Rs. 6,148 was incurred.

(5) *Constructing a set of bridges at Peddapudi crossing across the Nizampatam canal—East and West Side channel* (Estimate Rs. 33,070).—The work was started during the year and an expenditure of Rs. 7,560 was incurred.

16. *Working expenses—(a) Extensions and improvements.*—The expenditure under this head was Rs. 30,657 against Rs. 25,569 in 1929-30 and Rs. 56,889 the average of the previous triennium.

(b) *Maintenance and repairs.*—The outlay under this head was Rs. 6,71,856 against Rs. 8,55,712 in the previous year and Rs. 8,45,409 the average of the previous triennium. The fall in expenditure during the year was due to the silt clearance being restricted to the actual minimum requirements.

17. The navigation receipts and charges amounted to Rupees 1,24,653 and Rs. 1,04,340 respectively against Rs. 1,36,706 and Rs. 1,05,873 in the previous year. The figure under ton-mileage was 11,970,971 against 15,745,221 in 1929-30. The value of goods carried was estimated at Rs. 4,25,58,838 against Rupees 5,92,61,200 in the previous year.

18. The area irrigated was as shown below :—

		Average of the triennium ending 1929-30.	During 1929-30	During 1930-31.
		ACS.	ACS.	ACS.
First crop	.. ..	796,869	806,359	805,570
Second crop	.. ..	3,881	6,208	4,970

The extent of sugarcane cultivation was 177 acres against 219 acres in 1929-30.

19. The gross revenue and working expenses amounted to Rs. 41,69,375 and Rs. 12,39,599 respectively against Rs. 43,33,676 and Rs. 14,09,435 in 1929-30. The profit after paying interest charges was Rs. 22,65,508 which is equivalent to a return of Rs. 11.73 per cent on the capital outlay against Rs. 11.08 per cent in 1929-30 and Rs. 10.88 per cent in 1928-29.

20. The rainfall was heavy when compared with last year. The season was good and the water-supply was ample. Transplantation commenced in time and completed by the middle of August in the Kistna Eastern delta, and the end of August in Kistna Western delta. The rainfall during the transplantation period was evenly distributed and the supply from canals was steady. In some parts of the Eastern delta, there was loss of crops due to submersion as the rainfall was heavy at a time when the crop was ready for harvest.

The following table shows the dates of closure and re-opening of canals in the Kistna delta :—

Canals.	Date of opening.	Date of closure.
Eastern delta main canal ..	15th May 1930..	15th March 1931.
Western delta main canal..	1st June 1930 ..	Do.

NOTE.—In the Eastern delta the Bandar and Ryves canals were closed on 1st March 1931.

No. 5, Divi Pumping System.

21. The capital outlay during the year was Rs. 21,635 which was incurred chiefly on the following works :—

(1) *Providing a pumping set at Repalle and a pipe line from Repalle to Chatragadda* (Estimate Rs. 71,000).—The work was completed during the year at a cost of Rs. 61,699.

(2) *Improvements to drains in the Divi Subdivision* (Estimate Rs. 15,000).—The outlay during the year was Rs. 1,444 and to the end of the year Rs. 7,810. The work is in progress.

22. The expenditure under ' Extensions and improvements ' and ' Maintenance and repairs ' amounted to Rs. 8,495 and Rupees 1,11,842 respectively against Rs. 7,188 and Rs. 1,14,477 in the previous year. The slight increase under the former head was due to the purchase of a motor launch during the year.

23. The area irrigated was 40,889 acres first crop against 39,938 acres in 1929-30.

24. The gross revenue and working expenses amounted to Rs. 2,60,509 and Rs. 1,64,456 respectively against Rs. 2,51,405 and Rs. 1,55,819 in 1929-30. The deficit after paying interest charges was Rs. 4,033 which is 0.15 per cent on the capital outlay against a deficit of 0.08 per cent in 1929-30.

25. Pumping had to be started only on the 1st July 1930, as the river did not receive adequate freshes in the beginning of the season to start pumping. Owing to the failure of rains in July and August pumping had to be done continuously in order to complete transplantation as early as possible. The progress

of cultivation was therefore quite good till the end of August. But early in September, the loop channel was found to be silted up heavily, so much so, no supply could be got down even to feed one pump. The river level however rose soon after sufficiently high and September was thus tided over in spite of the poor rainfall. In October and November there were exceptionally heavy rains which rendered pumping almost unnecessary. The yield on the whole was not quite good owing to very heavy rains at the end.

Soon after pumping was started transplantation was in full swing over most of the area, and was almost completed about the 10th August as seedlings were ready in sufficient quantity for transplanting large areas and the ryots continued the practice of raising seedlings from water-supply derived from wells as in previous years. Pumping was stopped finally for the year on the 17th November. Pumping was necessary for 105 days against 134 days in the previous year.

No. 6, Penner River Canals System.

26. The capital outlay during the year was Rs. 2,834 which was incurred chiefly on the following works:—

(1) *Excavation of the Vidavalore channel under No. 2 sluice of the Vegore tank* (Estimate Rs. 15,760).—The outlay during the year was Rs. 800 and to end of the year Rs. 2,813. The land is expected to be handed over only during 1931-32, and hence the poor progress.

(2) *Improvements to Dagadarthi channel* (Estimate Rs. 21,810).—The work was started late in the year and an expenditure of Rs. 557 was incurred.

(3) *Improvements to low level sluice channel of the Nellore tank* (Estimate Rs. 7,670).—The outlay during the year was Rs. 765 and to the end of the year Rs. 6,563. The work was almost completed.

27. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 11,129 and Rs. 83,982 respectively against Rs. 7,435 and Rs. 1,01,501 in the previous year. The increase in expenditure under the former head was due to the rapid progress of the work "Forming a road way in the rear toe of the Survepalli reservoir bund", while the heavy expenditure during 1929-30 under the latter head was due to the restoration of works damaged in the cyclone of 1927.

28. The area irrigated was 162,771 acres first crop and 28,983 acres second crop against 161,902 acres and 17,483 acres

respectively in the previous year. The increase was due to the favourable character of the season. The extent of indigo cultivation was 685 acres against 671 acres in 1929-30.

29. The gross revenue and working expenses amounted to Rs. 7,03,314 and Rs. 1,30,080 respectively against Rs. 6,58,550 and Rs. 1,39,606 in 1929-30. The net revenue was thus Rs. 5,73,234. The profit after deducting interest charges was Rs. 3,80,310 representing a return of 5.61 per cent on the capital outlay against 4.82 per cent in 1929-30.

30. The Penner river was constantly in floods and there was ample rainfall during the year. The season was very favourable for crops.

No. 7, Cumbum tank.

31. There was no expenditure under capital account.

32. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 140 and Rs. 2,188 respectively against Rs. 112 and Rs. 4,000 in the previous year.

33. The area irrigated was 5,442 acres first crop and 889 acres second crop against 5,619 acres and 590 acres respectively in 1929-30.

34. There was a deficit of Rs. 11,957 which is 13.84 per cent on the capital outlay against 22.77 per cent in the previous year. The deficit was due to the grant of large remissions owing to the unfavourable character of the season.

No. 8, Arkenkota Channel.

35. No expenditure was incurred under capital account.

36. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 84 and Rs. 4,842 respectively against Rs. 117 and Rs. 4,998 in the previous year.

37. The area irrigated was 4,793 acres first crop and 436 acres second crop against 4,695 acres and 687 acres respectively in 1929-30.

38. The gross revenue and working expenses amounted to Rs. 20,263 and Rs. 6,388 respectively against Rs. 21,204 and Rs. 6,493 in the previous year. The profit after deducting interest charges was Rs. 9,194 which is 6.36 per cent on the capital outlay against 6.94 per cent in 1929-30.

No. 9, Thadapalle Channel.

39. There was no capital outlay during the year.

40. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 652 and Rs. 20,010 respectively against Rs. 2,302 and Rs. 18,183 in the previous year.

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41. The area irrigated was 15,021 acres first crop and 1,924 acres second crop against 15,051 acres and 2,613 acres respectively in the previous year. The decrease in the second crop was due to the insufficient supply of water.

42. The gross revenue amounted to Rs. 67,794 and the working expenses to Rs. 25,648. The net revenue was thus Rs. 42,146 against Rs. 41,350 in the previous year. The profit after deducting interest charges was Rs. 36,579 which is 20.61 per cent on the capital outlay against 20.17 per cent in 1929-30.

No. 10, Kalingarayan Channel.

43. There was no outlay under capital account during the year.

44. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 58 and Rs. 14,584 respectively against Rs. 140 and Rs. 12,944 in the previous year. The increase under the latter head was mainly due to repairing monsoon damages caused by floods.

45. The area irrigated was 12,210 acres first crop and 10,809 acres second crop against 12,327 acres and 10,575 acres respectively in 1929-30.

46. The gross revenue and working expenses amounted to Rs. 48,111 and Rs. 16,326 respectively. The net revenue was thus Rs. 31,785 against Rs. 37,015 in the previous year. The profit after deducting interest charges was Rs. 25,933 which is 14.37 per cent on the capital outlay against Rs. 17.27 per cent in 1929-30.

No. 11, Palar Anicut System.

47. The capital outlay during the year was Rs. 49 which was incurred on the construction of an aqueduct across the Thakkolam tank supply channel. The work was completed during the year.

48. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 2,083 and Rs. 56,306 respectively against Rs. 7,162 and Rs. 52,467 in the previous year.

49. The area irrigated was 78,208 acres first crop and 38,371 acres second crop against 73,179 acres and 22,424 acres respectively in 1929-30. The large increase in the area irrigated was due to the arrival of continuous freshes in the Palar. The extent of sugarcane cultivation was 317 acres against 148 acres in the previous year.

50. The gross revenue and working expenses amounted to Rs. 2,47,191 and Rs. 84,106 respectively. The net revenue was thus Rs. 1,63,085 against Rs. 77,088 in 1929-30. The profit after

deducting interest charges was Rs. 84,458 which is 3.43 per cent on the capital outlay against a profit of Rs. 1,510 or 0.16 per cent in the previous year.

No. 12, Chembrambakkam Tank.

51. No expenditure was incurred under capital account.

52. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 472 and Rs. 13,533 respectively against Rs. 513 and Rs. 8,399 in the previous year. The increase under the latter head was due to the repairs caused by the cyclone damages of the year.

53. The area irrigated was 13,505 acres first crop and 2,912 acres second crop against 13,049 acres and 2,540 acres respectively in 1929-30.

54. The gross revenue amounted to Rs. 41,203 and the working expenses to Rs. 12,668. The net revenue was Rs. 28,535. The profit after deducting interest charges was Rs. 6,621 which is 0.87 per cent on the capital outlay against 1.36 per cent in the previous year.

No. 13, Poiney Anicut System.

55. There was no capital outlay during the year.

56. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 739 and Rs. 12,795 respectively against Rs. 485 and Rs. 16,981 in the previous year.

57. The area irrigated was 23,258 acres first crop and 10,588 acres second crop against 21,025 acres and 3,529 acres respectively in 1929-30. The increase in the area irrigated was due to continuous freshes in the river Poiney and the adequate supplies in the tanks connected with the system.

58. The gross revenue amounted to Rs. 91,848 and the working expenses to Rs. 18,589. The net revenue was Rs. 73,259 against Rs. 31,224 in the previous year. The profit after deducting interest charges was Rs. 62,236 which is 20.48 per cent on the capital outlay against 6.66 per cent in 1929-30.

No. 14, Cheyyar Anicut System.

59. The capital outlay during the year was Rs. 759 which was incurred on 'combining the Thellur large and small tanks'. The work was completed during the year.

60. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 2,655 and Rs. 35,019 respectively against Rs. 3,079 and Rs. 23,048 in the previous year.

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The increased expenditure under the latter head was due to the fact that the tanks and the channels under the system had to be kept in good condition as this could not be attended to in previous years.

61. The area irrigated was 22,372 acres first crop and 13,505 acres second crop against 22,350 acres and 13,549 acres respectively in the previous year.

62. The gross revenue amounted to Rs. 79,456 and the working expenses to Rs. 48,436. The net revenue was Rs. 31,020, against Rs. 50,293 in the previous year. The profit after deducting interest charges was Rs. 11,687 which is equivalent to 2.18 per cent against 5.81 per cent in 1929-30.

No. 15, Tirukkoyilur Anicut System.

63. There was no outlay under capital account during the year.

64. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 2,522 and Rs. 18,492 respectively against Rs. 2,850 and Rs. 19,910 in the previous year.

65. The area irrigated was 27,260 acres first crop and 8,261 acres second crop against 26,234 acres and 5,409 acres respectively in the previous year. The extent of sugarcane cultivation was 274 acres against 25 acres in 1929-30.

66. The gross revenue and working expenses amounted to Rs. 81,945 and Rs. 26,947 respectively against Rs. 73,682 and Rs. 27,544 in the previous year. The net revenue was thus Rs. 54,988 against Rs. 46,138 in 1929-30. The profit after deducting interest charges was Rs. 41,573 which is 10.41 per cent on the capital outlay against 8.21 per cent in the previous year.

67. The channels had good supply and all the tanks were full. The irrigation was successful.

No. 16, Shatiatope Anicut System.

68. The capital outlay during the year was Rs. 2,013 which was incurred on a minor work.

69. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was nil and Rs. 16,635 respectively against Rs. 2,904 and Rs. 19,438 in the previous year.

70. The area irrigated was 32,493 acres first crop and 7,820 acres second crop against 32,758 acres and 7,330 acres respectively in 1929-30.

71. The gross revenue and working expenses amounted to Rs. 1,62,045 and Rs. 31,804 respectively against Rs. 1,54,384 and Rs. 37,558 in the previous year. The net revenue was thus

Rs. 1,30,241. The profit after deducting interest charges was Rs. 94,240 equivalent to a return of 8.74 per cent on the capital outlay against 7.56 per cent in 1929-30.

72. The highest flood level during the year was 11.6 feet on 27th October 1930 against the recorded maximum of 19.5 feet in 1880. Though the flood in the Vellar river was high, the supply was poor during the year, but this was made up by good supply received from the Veeranam tank supplemented by local rains. The season was on the whole good, but the crops suffered to some extent by the floods of October and November.

No. 17, Toludur (Willingdon) Reservoir.

73. The capital outlay on the project to the end of the year was Rs. 25,86,680 against the estimate of Rs. 32,10,000. The work has been completed and completion report sent.

74. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 422 and Rs. 34,839 respectively against Rs. 4,140 and Rs. 6,280 in 1929-30. The heavy expenditure under the latter head was due to the repairs to flood damages caused to the Toludur Regulator by the floods of May 1930 and other incidental works done to prevent future damages.

75. The area irrigated was 16,935 acres first crop and 5,189 acres second crop against 16,043 acres and 2,987 acres respectively in 1929-30. The extent of sugarcane cultivation was 486 acres against 171 acres in the previous year.

76. The gross revenue and working expenses amounted to Rs. 1,17,806 and Rs. 55,107 respectively against Rs. 1,05,025 and Rs. 20,384 in the previous year. The net revenue was thus Rs. 62,699. The deficit after paying interest charges was Rs. 46,853, which is 1.81 per cent on the capital outlay against 0.93 per cent in 1929-30.

77. The irrigation season commenced with 26.3 feet of water in the reservoir. As there had been practically no rains till the end of September 1930, the water level gradually fell down to 18.3 feet on 28th September 1930 when it again began to rise to F.T.L. (i.e.) 28 feet on the 24th October 1930. From this date the supply from the Vellar river was cut off. As there were no rains afterwards the water level in the reservoir fell gradually to 15.6 feet on the 1st April 1931 when the supply from the reservoir was closed.

The reservoir filled to F.T.L. for the first time after its construction and water overflowed the weir for about 96 hours from the 24th October 1930.

No. 18, Mehmattur Anicut System.

78. No expenditure was incurred under capital account.

79. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was nil and Rs. 3,793 respectively against Rs. 421 and Rs. 4,987 in the previous year.

80. The area irrigated was 4,542 acres first crop and 494 acres second crop, against 4,501 acres and 231 acres respectively in 1929-30. The extent of sugarcane cultivation was 129 acres against 74 acres in the previous year.

81. The gross revenue and working expenses amounted to Rs. 21,242 and Rs. 5,792 respectively against Rs. 19,819 and Rs. 7,566 in the previous year. The net revenue was thus Rs. 15,450. The profit after deducting interest charges was Rs. 12,955 which is 17.19 per cent on the capital outlay against 12.95 per cent in 1929-30.

82. Although there was dearth of rain during the first part of the irrigation season, and there were heavy rains in October and dearth again in December and January, the crops fared well.

No. 19, Vriddhachalam Anicut System.

83. There was no capital outlay during the year.

84. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 2,191 and Rs. 6,395 respectively against Rs. 3,856 and Rs. 7,271 in the previous year.

85. The area irrigated was 8,550 acres first crop and 745 acres second crop against 8,779 acres and 177 acres respectively in 1929-30.

86. The gross revenue and working expenses amounted to Rs. 33,683 and Rs. 14,120 respectively against Rs. 33,230 and Rs. 16,931 in the previous year. The net revenue was thus Rs. 19,563. The profit after deducting interest charges was Rs. 16,764 which is equivalent to 19.34 per cent on the capital outlay against 15.52 per cent in 1929-30.

87. The supply from the river Manimukthanadhi was poor owing to the absence of rains. But the crops were watered by a system of turns and were saved till the advent of rains in October. The outturn of crops was fair.

No. 20, Pelandorai Anicut System.

88. No capital outlay was incurred during the year.

89. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 3,180 and Rs. 13,313 respectively against Rs. 4,526 and Rs. 12,512 in the previous year.

90. The area irrigated was 12,717 acres first crop and 1,261 acres second crop against 12,411 acres and 479 acres respectively in the previous year.

91. The gross revenue and working expenses amounted to Rs. 58,115 and Rs. 26,292 respectively against Rs. 55,503 and Rs. 25,723 in 1929-30. The profit after deducting interest charges was Rs. 9,750 which is 1.41 per cent on the capital outlay against 1.11 per cent in 1929-30.

92. The supply from the Vellar river was deficient and the supply was regulated by turns till the advent of rains in October. Crops matured fairly well except in a few places where they suffered from heavy submersion.

No. 21, Lower Coleroon Anicut System.

93. The capital outlay during the year amounted to Rs. 10,546 which was mainly incurred on the improvements to the Veeranam tank. This work was completed at a cost of Rs. 1,48,889.

94. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 52,347 and Rs. 1,16,371 respectively against Rs. 82,976 and Rs. 1,43,974 in the previous year. The increase under the former head during the previous year was due to the raising of the banks of the Coleroon to provide for the flood levels of 1924, while the increase in the latter head was due to the execution of certain urgent works such as protecting sets in Vadavar and the special repairs to the new supply sluice at the north end of the Veeranam tank.

95. The area irrigated was 109,215 acres first crop and 11,362 acres second crop against 109,416 acres and 7,820 acres respectively in the previous year.

96. The gross revenue and working expenses amounted to Rs. 4,56,098 and Rs. 2,48,350 respectively against Rupees 4,36,669 and Rs. 3,10,292 in 1929-30. The net revenue was Rs. 2,07,748. The profit after deducting interest charges was Rs. 76,079 which is equivalent to 2.35 per cent on the capital outlay against a deficit of 0.09 per cent in the previous year.

97. The floods in the Coleroon during the south-west monsoon were below normal. There was no rainfall from August to October 20th, but subsequently there were unusually heavy rains which damaged the crops to a great extent. The highest flood level at the Lower Anicut was 15.05 feet on the 26th October 1930, against the recorded maximum of 18.85 feet on the 28th July 1924.

No. 22, Cauvery Delta System.

98. The capital outlay during the year amounted to Rupees 2,72,217 which was incurred chiefly on the following works:—

(1) *Excavation of a high level channel for the irrigation of sanded lands in Maruvur village* (Estimate Rs. 9,400).—The outlay during the year was Rs. 3,118 and to the end of the year Rs. 8,017. The work will be completed in 1931-32.

(2) *Converting the Mattur dam across the Ammanar into a regulator, and constructing a head sluice at the head of the Manjalar* (Estimate Rs. 13,640).—The outlay during the year was Rs. 3,070 and to the end of the year Rs. 12,024. The work has since been completed in 1931-32.

(3) *Improvements to the Ayyavayyanar* (Estimate Rupees 1,67,500).—The outlay during the year was Rs. 63,037 and to the end of the year Rs. 1,38,819.

(4) *Improvements to the Tirunagari channel* (Estimate Rs. 1,05,280).—The outlay during the year was Rs. 36,244 and to the end of the year Rs. 76,319. The work will be completed in 1931-32.

(5) *Improvements to the drainage of the lands in Tiruturai-pundi middle section* (Estimate Rs. 76,400).—The outlay during the year was Rs. 15,631, and to the end of the year Rs. 59,101.

(6) *Diversion of the upland drainage above the Cauvery-Vennar Regulators* (Estimate Rs. 2,01,700).—The outlay during the year was Rs. 1,23,108 and to the end of the year Rs. 1,23,436.

(7) *Reconstructing the three vents surplus sluice on the right bank of the Coleroon* (Estimate Rs. 34,100).—The work was completed during the year at a cost of Rs. 31,982.

99. *Working expenses*—(a) *Extensions and improvements*.—The outlay was Rs. 1,44,758 against Rs. 1,29,189 in 1929-30 and Rs. 1,51,307 the average of the previous triennium.

(b) *Maintenance and repairs*.—The expenditure was Rupees 6,26,064 against Rs. 6,33,805 in 1929-30 and Rs. 6,85,771 the average of the previous triennium.

100. The area irrigated was as shown below:—

			Average of the triennium ending 1929-30.	During 1929-30.	During 1930-31.
			ACS.	ACS.	ACS.
First crop	...	...	891,898	894,627	880,553
Second crop	...	...	89,703	94,835	97,424

101. The gross revenue was Rs. 8,38,633 against Rs. 18,77,208 in the previous year and Rs. 17,91,392 the average of the previous triennium. The working expenses amounted to Rs. 9,58,651 against Rs. 9,61,104 in 1929-30 and Rs. 10,15,670 the average of the previous triennium. There was thus a deficit of Rs. 1,20,018. The net loss after deducting interest charges was Rs. 4,12,218 which is 5.59 per cent on the capital outlay against a profit of 9.02 per cent in 1929-30 and 6.63 per cent in 1928-29. The loss was due to the grant of heavy remissions owing to the damages caused by floods of October and November 1930.

No. 23, Nandyar Channel System.

102. No expenditure was incurred under capital account.

103. The outlay under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 3,853 and Rs. 5,353 respectively against Rs. 4,713 and Rs. 7,801 in the previous year.

104. The area irrigated was 6,722 acres first crop and 2,122 acres second crop against 6,729 acres and 2,426 acres respectively in the previous year.

105. The gross revenue and working expenses amounted to Rs. 12,918 and Rs. 9,218 respectively against Rs. 11,592 and Rs. 14,334 in the previous year. The profit after deducting interest charges was Rs. 1,564 which is 2.38 per cent on the capital outlay against a deficit of 7.42 per cent in 1929-30.

No. 24, Kattalai Anicut Scheme.

106. The total outlay incurred up to the end of the year was Rs. 11,78,577. The excavation of the North Bank canal which was started late in the year was in progress.

107. The expenditure under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 3,962 and Rs. 54,212 respectively against Rs. 6,760 under the latter head in the previous year. The outlay under the former head was due to the carrying out of improvements to the outlet on the left bank of the Mahadanapuram channel, while the heavy outlay under the latter head was due to the repairs to flood damages caused by the floods of October 1930.

108. The area irrigated was 35,900 acres first crop and 12,026 acres second crop against 36,057 acres and 9,253 acres, respectively, in the previous year.

109. There was a deficit in revenue of Rs. 93,949 which is 7.97 per cent on the capital outlay against 1.93 per cent in 1929-30.

No. 25, Cauvery-Mettur Project.

110. *Staff.*—The appointment of Mr. C. T. Mullings as Consulting Chief Engineer ceased on 8th July 1930 and he retired from that date. Mr. V. Hart returned from leave on 17th March 1930 and was additional Engineer-in-Chief till 17th April 1930 when Mr. F. M. Dowley, Officiating Engineer-in-Chief, went on leave. Mr. D. W. Gollan, Executive Engineer, was appointed Personal Assistant to the Engineer-in-Chief from 8th May 1930. The only other changes of any importance that took place during the year were: Mr. W. P. Roberts, Superintending Engineer, Machinery, who was suddenly taken ill, went on leave and ultimately retired from service and the offices of the Superintending Engineer, Machinery, and the Executive Engineer, Camps and Buildings division, were abolished. In the Canal Circle a separate division was formed from 4th May 1930 for the investigation of field bothis and delimitation of ayacut. As in the previous year only the minimum staff was employed on the project thus resulting in a saving of about 6.05 lakhs under this head.

111. *Land acquisition.*—In the Canal system an extent of 650 miles out of the total of 660 miles was acquired up to the end of the year. Acquisition of lands required for field channels (total about 920 miles) was begun at the end of the year.

112. *Progress of works—Head works—(i) Communications.*—Proposals for retaining a portion of the Bhavani-Mettur road in the limits of the Mettur taluk area (about 10 miles) in the hands of the project staff were submitted to Government as the project sand lines extend through these ten miles. The approach road from Mettur Dam Railway Station to the Surplus Sluice Bridge at Ellis Saddle was still in progress. This will ultimately form part of the Thoppur-Mettur trunk road.

(ii) *Buildings.*—No buildings of any importance were constructed during the year.

(iii) *Water-supply.*—A 24-hour pure water-supply to the camp and works was maintained and the cost of supplying pure water works out to As. 1-9 per 1,000 gallons as against As. 2 in the last year. Proposals to supply drinking water to Salem town from the Mettur reservoir were under consideration.

(iv) *Drainage.*—The underground drainage system on the Mettur side is working satisfactorily. The sewage farm yielded a revenue of Rs. 6,730 during the year, against Rs. 5,450 spent for its maintenance. The small sewage farm at Salem camp was auctioned for Rs. 875 for the two years ending 30th April 1932.

(v) *Health and accidents.*—The general health of the camp was good, and there were no serious epidemics during the year.

The total number of accidents recorded by hospital for the year was 110 (major 60 and minor 50). The amount of compensation paid under the Workmen's Compensation Act was Rs. 4,665.

(vi) *Machinery and plant—Concrete-placing plant.*—The Red tower began to function from April 1930. The outturn of this tower during the year was—

	UNITS.
(1) Concrete laid	17,498
(2) Mortar mixed for building masonry	4,995

The erection of the Black tower at the left bank was completed by the end of August 1930 and it began to function from September. Outturn from this tower was—

	UNITS.
(1) Concrete	6,080
(2) Mortar mixed for building masonry	3,218

The outturn by both the towers works out to about 30 per cent of the total outturn for the whole year. This is much less than what was expected of the towers. The reasons for the short outturn are—

The maximum expected outturn of 1,500 tons per tower was based on the expectation that the towers could be worked in two shifts of six hours each per diem. But they now work only one shift of eight and half hours per diem. Besides, the area prepared for laying of concrete by towers and track laid for the travelling of the towers have not been sufficient to allow of more outturn.

All the three batteries of the giant stone crushers had been completely erected and they were working satisfactorily. The total quantity of metal crushed by the three units during the year was 24,182 units.

(vii) The explosive used was liquid oxygen manufactured in the Mettur Power House. The Right and Left Bank quarries have been developed to the full extent possible. A new quarry was opened at the eastern end of Chettamalai cutting towards the end of the year.

The output in departmental quarry during the year was—

	TONS.
Right bank quarry	90,000
Left bank quarry	170,000
Chettamalai quarry	1,318

(viii) *Electric power and supply.*—Electric work kept pace with requirements. All the machinery at head works with the exception of one calyx machine, pneumatic tools and certain essentially steam-driven plant are now driven by electricity.

Bulk supply of electric energy from Mysore was very satisfactory. The total consumption for the year was 4,590,269 units. In June 1930 the limit of 300,000 units was exceeded and consequently the benefit of the sliding scale of charges was attained. Interruptions were reduced to the minimum.

(ix) *Hydro-electric works.*—The scheme is designed to generate power of 30,000 horse-power all the year round, and consists of insertion of four rows of pipes 8 feet 6 inches in diameter in the dam to work the turbines. The diameter of the pipes have been so fixed that the tying in of the Mettur scheme eventually with Pykara power scheme might be possible. Masonry works for the seating of the pipes was completed by November 1930 when erection of pipes was started. All the four rows were completely laid in position and covered with baby jelly concrete by the end of the year.

(x) *Sand Collection.*—Sand collected during the year was 171,850 tons and to the end of the year 737,000 tons against the total requirements of 1,000,000 tons. It has been decided to use the crusher dust as far as available in place of sand. The quantity of dust expected to replace sand is about three-fourths million cubic feet.

(xi) *Surki.*—This was manufactured locally. Manufacture kept pace with requirements. The plant which consists of five disintegrators is fully equipped to yield the required output. Economies have been effected in the manufacture of bricks and the method of running the plant. As a result the cost of surki has been brought down from Rs. 6-10-0 per ton at the end of last year to Rs. 5-6-0 per ton now. The total output in the factory was about 11,400 tons during the year.

(xii) Tests were conducted throughout the year on the following:—Results obtained were satisfactory:—

(i) Cement.

(ii) Sample blocks of dam concrete (after 7 and 28 days curing).

(iii) Bulking, moisture contents and voids in sand.

(iv) Output from surki disintegrator.

(xiii) *Main dam.*—Progress during the year was good. Excavation has been practically completed except for short bits.

0—120, 160—220, 4,120—4,400.

Work in the most important portion, viz., Central Cofferdam, has been completed. The whole of the river-bed from one bank to the other is covered with masonry.

The total quantity of masonry completed during the year was 741,000 tons and to the end of the year 1,170,000 tons. Average daily output was about 2,472 tons per diem.

(xiv) *Ellis Saddle cutting*.—Against the estimated quantity of 12,500 units of cutting, about 11,870 units have been cut till now. The remaining work will go on slowly so as to admit of the spoil being utilized to the best advantage possible.

Arch ribs for all the sixteen spans in the surplus sluice bridge have been cast. Road decking for eight spans have been completed. Front and rear cut-off walls have been built to lengths of 760 feet and 120 feet respectively. About 4,160 units of masonry work has been done against the estimated quantity of 5,958 units. Excavation of retaining walls for aprons was commenced. Work on the surplus sluice gates was also in progress.

(xv) *Season*.—The shade temperature was 100° or more on 53 days during the year against 57 days in the previous year. The rainfall during the year amounted to 34.97 inches against 64.12 inches in the previous year. The number of rainy days in the year was 77, and the highest rainfall on a single day was 2.94 inches on 7th May 1930, against 7.63 inches in the previous year.

Evaporation during the year was 115.473 inches and the net effect on reservoir was — 80.503 inches. There was no serious havoc to works due to floods though work in the Central Cofferdam was hampered for some time.

CANAL SYSTEM.

113. (i) *Investigation and alignment*.—A few items of work in the investigation of channels down to 150-acre blocks that remained over at the end of the previous year were completed. For the taking of block levels and the preparation of ayacut registers, etc., and the laying out of field bothis down to 25-acre blocks, a special division was constituted in the beginning of the year to work in co-ordination with the Special Revenue Officer. The progress of work to end of the year has been fairly satisfactory.

(ii) *Grand Anicut Canal System*—(a) *Main canals and branches*.—The head regulator for the Grand Anicut canal has been completed with the exception of few minor items of work. The regulator at R.D. 25/4656 of the Grand Anicut canal and the head sluice to the Pudupatnam canal have also been completed, except fitting shutters for the former and revetment work for the latter.

There were nine drops under construction during the year and all of these have almost been completed.

Out of 29 major syphon works (of which 27 are incomplete works of the previous year) on the Grand Anicut canal which were under execution during the year, 19 have been either completed or are approaching completion. Two minor syphon aqueducts on the Grand Anicut canal and four under-tunnels on the Pudupatnam canal were also in progress.

Twelve 'B' and 'C' class bridges and four foot-bridges on the Grand Anicut canal had been completed and two 'B' class bridges were nearing completion. Three 'C' class bridges and one foot-bridge on the Grand Anicut canal and two 'C' class bridges in the Pudupatnam canal were in progress. Two railway bridges west of Tanjore were completed during the year by the Railway department and the one to the east of Tanjore Railway Station is about to be put in hand.

One permanent and two temporary inspection bungalows and temporary quarters for two supervisors and a sub-assistant surgeon were completed.

A length of nearly six miles of the Grand Anicut canal was dug by the excavators during the year. The total quantity of works excavated was about 26,300 units. In the Tanjore town cutting where excavation is done by manual labour there was steady progress and the work is almost completed. In the Pudupatnam branch canal about 2,600 units of excavation have been done out of a total estimated quantity of 3,100 units.

(b) *Distributaries*.—Almost all the masonry works in the upper distributaries of the Grand Anicut canal have been completed except the fixing of shutters to sluices and construction of end dams. In the lower reaches below R.D. 16/00 about 400 works of different descriptions were under execution during the year of which about 236 works have been completed and the rest are in various stages of progress.

The excavation of the Grand Anicut channels Nos. 1 to 5 and 5-A has been completed and that of Chakrasamantham channel is nearing completion. In the lower portions, eight major distributaries had either been completed or were nearing completion and three more channels were in progress. Excavation of several minor distributaries was also in progress. The value of earthwork done in the excavation of distributaries during the year was Rs. 1.17 lakhs approximately.

(iii) *Vadavar System*—(a) *Main canals and branches*.—The super-passage at R.D. 2/31 of Vadavar was completed, as also the bridges at 1/64 and 3/76. The widening of the Vadavar has been completed. Raising of the banks to the standard level was in progress. The diversion of the Muthalamattu vari was also practically completed.

(b) *Distributaries*.—All masonry works have been completed, with the exception of pipe sluices, end dams and works in rear channels, which remain postponed till the ayacut and positions are settled by the special division.

(iv) *General*.—Supply of labour was generally fair. At Vettigadu which is malarial and where some difficulty was felt in gathering labour, a dispensary was opened in December 1930 and other facilities were also offered to the coolies. The unprecedented rains and floods of October 1930 seriously interfered with the progress of works in general and caused damages to earthwork. There was also some loss of tramway plant and materials, which were carried away by the floods.

114. *Outlay*.—The outlay on the project during the year was Rs. 94,02,771 and to the end of the year Rs. 4,42,49,706 against the estimate of Rs. 7.37 crores.

No. 26, Periyar System.

115. The capital outlay during the year was Rs. 5,870 which was incurred mainly on the construction of an inspection bungalow and quarters for the Supervisor at the Periyar headworks. This work was completed during the year at a cost of Rs. 7,236.

116. *Working expenses*—(a) *Extension and improvements*.—The outlay was Rs. 52,237 against Rs. 95,940 in the previous year. The heavy outlay in the previous year was due to the purchase of a grouting machine for the Periyar Protective works.

(b) *Maintenance and repairs*.—The expenditure was Rs. 1,61,343 against Rs. 1,53,163 in the previous year. The amount includes Rs. 42,965 annually paid to the Travancore Darbar for the land occupied by the Periyar lake.

117. The area irrigated compares as shown below :—

		Average of the triennium ending 1929-30.	During 1929-30.	During 1930-31.
		ACS.	ACS.	ACS.
First crop	...	132,037	132,020	131,609
Second crop	...	50,281	50,426	45,126

The decrease in the second crop was due to the unfavourable character of the season.

118. The gross revenue and working expenses amounted to Rs. 8,75,239 and Rs. 3,09,623 respectively against Rs. 8,84,296 and Rs. 3,72,839 in the previous year. The net revenue was Rs. 5,65,616 against Rs. 5,11,457 in 1929-30. The profit after deducting interest charges was Rs. 2,15,932 which is 1.99 per cent on the capital outlay against 1.50 per cent in 1929-30.

119. The rainfall was above the average. The general condition of the crops was good and water-supply sufficient. The highest flood in the Vaigai during the year was recorded at Peranai on the 9th November 1930, the front reading at the regulator being 13.10 feet and the rear reading 9.5 feet when ten gates were kept open by 11 feet each. The head sluice was opened on the 1st June 1930 with lake level of 144.45 feet and was closed on the 13th March 1931. The highest level to which water in the Periyar lake rose during the year was 150.55 feet on the 7th August 1930.

No. 27, Srivaikuntam Anicut System.

120. No expenditure was incurred under capital account.

121. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 8,866 and Rs. 45,069 respectively against Rs. 12,592 and Rs. 46,414 in the previous year.

122. The area irrigated was 25,805 acres first crop and 17,866 acres second crop against 25,633 acres and 16,381 acres respectively in the previous year.

123. The gross revenue and working expenses amounted to Rs. 1,64,170 and Rs. 76,639 respectively against Rs. 1,61,096 and Rs. 86,721 in the previous year. The net revenue was Rs. 87,531 against Rs. 74,875 in 1929-30. The profit after deducting interest charges was Rs. 30,718 which is 1.73 per cent on the capital outlay against 0.99 per cent in 1929-30.

124. The rainfall was below the average. The season was on the whole fair. Owing to defective rains there was failure of kar crop during September. The defective rainfall during the north-east monsoon was also responsible for some failure of crops here and there.

No. 28, Marudur Anicut System.

125. There was no capital outlay during the year.

126. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' amounted to Rs. 5,737 and Rs. 26,461 respectively against Rs. 1,000 and Rs. 8,016 in the previous year. The increased expenditure under the former head was due to the execution of petty works, while the making up of damages caused by the unusual rains of March 1930 accounted for the heavy expenditure under the latter head.

127. The area irrigated was 17,514 acres first crop and 12,970 acres second crop against 17,520 acres and 15,141 acres respectively in the previous year.

128. The gross revenue and working expenses amounted to Rs. 97,021 and Rs. 42,862 respectively against Rs. 97,360 and

Rs. 11,063 in the previous year. The net revenue was thus Rs. 54,159. The profit after deducting interest charges was Rs. 52,034 which represents a return of 86.54 per cent on the capital outlay against 140 per cent in 1929-30.

CHAPTER V—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.

A. IRRIGATION WORKS—UNPRODUCTIVE.

No. 29, Rushikulya System.

The capital outlay during the year was Rs. 1,23,370 which was incurred on the following works:—

(1) *Improvements to the Surada reservoir* (Estimate Rs. 28,500).—The outlay during the year amounted to Rs. 7,501 and to the end of the year Rs. 26,660.

(2) *Excavation of the Girisola channel* (Estimate Rs. 2.70 lakhs).—The outlay during the year was Rs. 87,743 and to the end of the year Rs. 1,05,940.

(3) *Constructing quarters for Section Officer, lascar and Anicut Superintendent at Madhavaborida* (Estimate Rs. 6,275).—The work was completed during the year at a cost of Rs. 5,497.

2. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 25,282 and Rs. 1,04,034 respectively against Rs. 9,780 and Rs. 1,21,442 in the previous year. The heavy expenditure under the former head was due to the work of "Reconstructing the under-tunnel at 23/5 of the Rushikulya Canal" having been taken up during the year.

3. The area irrigated was 108,524 acres first crop and 1,040 acres second crop against 109,218 acres and 1,333 acres respectively in the previous year. The extent of sugarcane cultivation was 226 acres against 367 acres in 1929-30.

4. The gross revenue and the working expenses amounted to Rs. 1,93,500 and Rs. 1,75,105 respectively against Rs. 2,06,897 and Rs. 1,77,783 in the previous year. The net revenue was Rs. 18,395 which represents a return of 0.34 per cent on the capital outlay against 0.55 per cent in 1929-30.

5. The average rainfall in the catchment area was 56.89 inches against 42.41 inches in the previous year. Gauges were read at six stations, the quantity recorded being 240.22 inches during the south-west monsoon and 66.85 inches during the north-east monsoon. The rainfall on the whole was above normal and there was good yield.

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The water-level in the Russellkonda reservoir was 40·75 feet on the 16th July 1930, when it was first opened for irrigation and the reading of the Surada reservoir was 26·90 feet on the 16th July when it was first opened. The outturn of crops was very good, and far above the normal.

No. 30, Nagavalli River System.

6. The capital outlay during the year was Rs. 1,330 which was incurred on the work of excavating the Lovidilakshmipuram field distributary.

7. The expenditure under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 2,175 and Rs. 15,676 respectively against Rs. 1,055 and Rs. 14,558 in the previous year.

8. The area irrigated was 26,514 acres first crop and 715 acres second crop against 26,303 acres and 625 acres respectively in the previous year.

9. The gross revenue and working expenses amounted to Rs. 88,591 and Rs. 24,975 respectively against Rs. 84,977 and Rs. 21,890 in the previous year. The net revenue was thus Rs. 63,616 which is equivalent to 3·69 per cent on the capital outlay against 3·66 per cent in 1929-30.

10. The rainfall was sufficient and fairly distributed during the irrigation season and the outturn of crops was fair.

No. 31, Muniyeru System.

11. There was no expenditure under capital account.

12. The outlay under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 6 and Rs. 7,372 respectively against Rs. 5,488 under the latter head in the previous year.

13. The area irrigated was 8,894 acres against 8,167 acres in the previous year.

14. The gross revenue and working expenses amounted to Rs. 36,140 and Rs. 12,327 respectively against Rs. 33,519 and Rs. 9,146 in the previous year. The net revenue was Rs. 23,813 or 3·96 per cent on the capital outlay against 4·06 per cent in 1929-30.

No. 32, Jangamaheshwarapuram Tank.

15. There was no expenditure either under capital account or under working expenses during the year.

16. The area irrigated was 455 acres first crop and 7 acres second crop against 412 acres of first crop in the previous year.

17. The net revenue was Rs. 743 representing a return of 1.04 per cent on the capital outlay against a deficit of 0.42 per cent in 1929-30.

No. 33, Atmakur Tank.

18. No expenditure was incurred under capital account.

19. The outlay under ' Extensions and improvements ' and ' Maintenance and repairs ' was nil against Rs. 293 under the latter head in the previous year.

20. The area irrigated was 765 acres against 777 acres in the previous year.

21. The net revenue after deducting working expenses was Rs. 2,715 or 2.20 per cent on the capital outlay against 1.93 per cent in 1929-30.

No. 34, Dondapad Tank.

22. There was no capital outlay during the year.

23. The expenditure under ' Extensions and improvements ' and ' Maintenance and repairs ' was nil against Rs. 5 under the latter head in the previous year.

24. The area irrigated was 159 acres first crop and 6 acres second crop against 203 acres and 4 acres respectively in the previous year.

25. The net revenue after deducting working expenses was Rs. 580 or 0.41 per cent on the capital outlay against 0.49 per cent in 1929-30.

No. 35, Bhavanasi Tank.

26. No outlay was incurred under capital account.

27. The expenditure under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 479 and Rs. 1,219 respectively against Rs. 1,292 under the latter head in the previous year.

28. The area irrigated was 411 acres first crop and 248 acres second crop against 473 acres and 193 acres respectively in the previous year.

29. The gross revenue and working expenses amounted to Rs. 5,240 and Rs. 2,592 against Rs. 5,823 and Rs. 1,974 respectively in the previous year. The net revenue was thus Rs. 2,648 or 1 per cent on the capital outlay against 1.45 per cent in 1929-30.

No. 36, Mopad Reservoir.

30. There was no capital outlay during the year.

31. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 562 and Rs. 10,037 respectively against Rs. 1,350 and Rs. 9,987 in the previous year.

32. The area irrigated was 3,568 acres first crop and 2,179 acres second crop against 3,514 acres and 522 acres respectively in the previous year.

33. The gross revenue and working expenses amounted to Rs. 42,868 and Rs. 16,573 respectively against Rs. 26,772 and Rs. 15,862 in the previous year. The net revenue was Rs. 26,295 or 1.15 per cent on the capital outlay against 0.48 per cent in 1929-30.

No. 37, Hajjipuram Tank.

34. No expenditure was incurred under capital account.

35. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 798 and Rs. 505 respectively against Rs. 330 under the latter head in the previous year.

36. The area irrigated was 742 acres first crop and 40 acres second crop against 630 acres and 4 acres respectively in the previous year.

37. The net revenue after deducting working expenses was Rs. 1,227 or 0.90 per cent on the capital outlay against 1.05 per cent in 1929-30.

No. 38, Ponnalur Tank.

38. No capital outlay was incurred during the year.

39. The expenditure under 'Maintenance and repairs' was Rs. 1,201 against Rs. 3 under 'Extensions and improvements' and Rs. 2,286 under 'Maintenance and repairs' in the previous year.

40. The area irrigated was 811 acres first crop and 318 acres second crop against 763 acres and 93 acres respectively in the previous year.

41. The net revenue after deducting working expenses was Rs. 3,438 or 1.57 per cent on the capital outlay against 0.71 per cent in 1929-30.

No. 39, Anamasamudram-Beraperu Tank.

42. There was no outlay under capital account.

43. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was nil against Rs. 900 under the latter head in the previous year.

44. The area irrigated was 1,015 acres first crop and 360 acres second crop against 931 acres first crop in the previous year.

45. The net revenue after deducting working expenses was Rs. 2,719 or 3.70 per cent on the capital outlay against a deficit of 2.86 per cent in 1929-30.

No. 40, Yerur Tank.

46. No expenditure was incurred under capital account.

47. The outlay under ' Maintenance and repairs ' was Rs. 243 during the year.

48. The area irrigated was 1,520 acres first crop against 1,375 acres in the previous year.

49. The net revenue after deducting working expenses was Rs. 3,146 or 4.96 per cent on the capital outlay against 5.04 per cent in 1929-30.

No. 41, Sagileru System.

50. There was no capital outlay during the year.

51. The expenditure under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 266 and Rs. 6,011 respectively against Rs. 1,000 and Rs. 6,254 in the previous year.

52. The area irrigated was 4,258 acres first crop and 495 acres second crop against 4,286 acres and 1,463 acres respectively in the previous year. The extent of sugarcane cultivation was 91 acres against 64 acres in the previous year.

53. There was a deficit of Rs. 4,400 or 0.95 per cent on the capital outlay against 0.68 per cent in 1929-30.

No. 42, Markapur Tank.

54. No expenditure was incurred under capital account.

55. The outlay under ' Maintenance and repairs ' was Rs. 1,694 against Rs. 57 under ' Extensions and improvements ' and Rs. 4,970 under ' Maintenance and repairs ' in the previous year.

56. The area irrigated was 1,403 acres first crop and 625 acres second crop, against 1,281 acres and 58 acres respectively in the previous year.

57. The net revenue after deducting working expenses was Rs. 2,729 or 2.11 per cent on the capital outlay against a deficit of 3.36 per cent in 1929-30.

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No. 43, Yellanur Tank.

58. No capital outlay was incurred during the year.

59. The expenditure under ' Maintenance and repairs ' was Rs. 200 against Rs. 271 in the previous year.

60. The area irrigated was 864 acres first crop and 27 acres second crop against 853 acres and 11 acres respectively in the previous year.

61. The net revenue was Rs. 3,652 or 1.35 per cent on the capital outlay against 1.08 per cent in 1929-30.

No. 44, Kocheruvu Tank.

62. No expenditure was incurred under capital account.

63. The outlay under ' Maintenance and repairs ' was Rs. 175 against Rs. 540 in the previous year.

64. The area irrigated was 179 acres first crop and 67 acres second crop, against 127 acres and 5 acres respectively in the previous year.

65. There was a deficit of Rs. 187 or 0.14 per cent against a deficit of 0.77 per cent in 1929-30.

No. 45, Siddapur Tank.

66. There was no capital outlay during the year.

67. The expenditure under ' Maintenance and repairs ' was Rs. 660 against Rs. 699 in the previous year.

68. There was no irrigation under the tank during the year owing to scanty supplies.

69. There was a deficit of Rs. 668 or 0.8 per cent on the capital outlay against a revenue of 0.43 per cent in 1929-30.

No. 46, Nagavaram Anicut and Supply Channel.

70. No expenditure was incurred either under capital account or under working expenses.

71. The area irrigated was 629 acres first crop and 409 acres second crop against 600 acres and 116 acres respectively in the previous year. The increase in the second crop was due to timely rains.

72. The net revenue was Rs. 1,810 or 1.65 per cent on the capital outlay against 0.50 per cent in 1929-30.

No. 47, Venkatapuram Tank.

73. There was no capital outlay during the year.

74. The expenditure under 'Maintenance and repairs' was Rs. 316 against Rs. 434 in the previous year.

75. The area irrigated was 207 acres first crop and 8 acres second crop, against 123 acres first crop in the previous year.

76. The net revenue was Rs. 341 or 0.09 per cent on the capital outlay against a deficit of 0.06 per cent in 1929-30.

No. 48, Kurnool-Cuddapah Canal.

77. No expenditure was incurred under capital account.

78. The outlay under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 4,744 and Rs. 1,01,746 respectively against Rs. 10,765 and Rs. 93,447 in the previous year. The low outlay under the former head was due to the fact that the proposed improvements and alterations to the existing locks and weirs from mile 119 had to be kept in abeyance, consequent on the abandonment of navigation in that reach, while the increase under the latter head was due to the carrying out of special repairs in K. C. Canal Maidkur and chepaud channels.

79. The navigation receipts and charges amounted to Rs. 240 and Rs. 11,378 respectively.

80. The area irrigated was 73,048 acres first crop and 11,219 acres second crop against 81,453 acres and 10,050 acres respectively in the previous year. The decrease under the first crop was due to the late rains and insufficient supplies. The extent of sugarcane cultivation was 70 acres against 66 acres in the previous year.

81. The gross revenue and working expenses amounted to Rs. 3,27,469 and Rs. 1,49,774 respectively against Rs. 3,34,649 and Rs. 1,54,242 in the previous year. The net revenue was Rs. 1,77,695 which is equivalent to 0.76 per cent on the capital outlay against 0.77 per cent in 1929-30.

No. 49, Basavanna Channel.

82. The excavation of the extension channel, and the construction of escapes, culverts, aqueducts, irrigation sluices and providing revetments were the important works in progress during the year. The capital outlay during the year was Rs. 88,181 and to the end of the year Rs. 5,08,399 against the estimate of Rs. 5.50 lakhs.

No. 50, Thippayapalem Project.

83. The revised estimate was received sanctioned in April 1931 and the work was ordered to be resumed.

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No. 51, Barur Tank.

84. No capital outlay was incurred during the year.

85. The expenditure under 'Maintenance and repairs' was Rs. 7,379 against Rs. 6,245 in the previous year.

86. The area irrigated was 3,683 acres first crop and 1,747 acres second crop against 3,618 acres and 1,447 acres respectively in the previous year.

87. The gross revenue and working expenses amounted to Rs. 20,724 and Rs. 10,563 respectively against Rs. 20,206 and Rs. 8,826 in the previous year. The net revenue was Rs. 10,161 representing a return of 2.29 per cent on the capital outlay against 2.57 per cent in 1929-30.

No. 52, Kanniyampalayam Anicut.

88. There was no expenditure under capital account.

89. The outlay under 'Maintenance and repairs' was Rs. 4,995 against Rs. 2,000 in the previous year. The increased outlay was due to the repairing of monsoon damages caused by floods.

90. The area irrigated was 208 acres first crop and 2 acres second crop against 208 acres under the former category in the previous year.

91. There was a deficit of Rs. 2,344 or 1.93 per cent on the capital outlay against a revenue of 2.57 per cent in 1929-30.

No. 53, Madras Water-supply and Irrigation System.

92. An outlay of Rs. 417 was incurred during the year on the improvements to the Upper Supply Channel.

93. The expenditure under 'Extensions and improvements' and 'Maintenance and repairs' was Rs. 544 and Rs. 16,566 respectively against Rs. 1,008 and Rs. 17,068 in the previous year.

94. The area irrigated was 7,513 acres first crop and 3,700 acres second crop against 7,394 acres and 2,390 acres respectively in the previous year.

95. The net revenue was Rs. 40,249 equivalent to a return of 2.17 per cent on the capital outlay against 2.05 per cent in 1929-30. The miscellaneous revenue including that from the water-supply to the town amounted to Rs. 40,961 against Rs. 41,488 in the previous year.

No. 54, Vallur Anicut System.

96. No expenditure was incurred under capital account.

97. The outlay under ' Maintenance and repairs ' was Rs. 1,700 against Rs. 1,768 in the previous year.

98. The area irrigated was 5,127 acres first crop and 166 acres second crop against 5,034 acres and 135 acres respectively in the previous year.

99. The net revenue amounted to Rs. 2,904 representing a return of 3.81 per cent on the capital outlay against 5.08 per cent in 1929-30.

No. 55, Panjapatti Reservoir.

100. There was no capital outlay during the year.

101. The outlay under ' Extensions and improvements ' and ' Maintenance and repairs ' was Rs. 735 and Rs. 396 respectively against Rs. 798 and Rs. 671 in the previous year.

102. The area irrigated during the year was 35 acres first crop and 2 acres second crop.

103. There was a deficit of Rs. 752 or 0.22 per cent on the capital outlay against 0.59 per cent in 1929-30.

CHAPTER VI—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.**B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.****No. 56, Ganjam-Gopalpur Canal.**

The gross receipts and working expenses amounted to Rupees 7,088 and Rs. 154 respectively. The net revenue was Rs. 6,934 or 4.66 per cent on the capital outlay against 3.71 per cent in 1929-30.

No. 57, Buckingham Canal.

2. The canal which is 262 miles long is intended solely for navigation. The capital outlay during the year was Rs. 1,752 which was incurred on the construction of quarters and office for the lock establishment at Pambli and construction of huts for lock lascars in the Nellore division.

3. (1) *Extensions and improvements.*—The outlay was Rupees 3,947 against Rs. 31,450 in the previous year. The poor outlay was due to the further improvements in the Junction canal and Adyar-Covelong reach having been held in abeyance.

PUBLIC WORKS DEPARTMENT (IRRIGATION BRANCH), 1930-31 61

(2) *Maintenance and repairs.*—The expenditure was Rupees 2,48,279 against Rs. 2,27,329 in the previous year, and Rupees 2,12,777 the average of the previous triennium. The increased expenditure was due to the repairs to flood damages caused by the cyclone of 1930.

4. The 'Navigation receipts,' 'Ton mileage,' 'Value of goods' and 'Number of passengers' compare as shown below with those of the previous year :—

	1930-31.	1929-30.
Receipts	Rs. 97,741	Rs. 87,921
Ton-mileage	50,37,146	5,249,633
Value of goods	Rs. 50,47,538	Rs. 8,722,628
Number of passengers	94,659	17,543

5. The gross revenue and working expenses are compared below with those for 1929-30 and the average of the previous triennium :—

	Average of the triennium ending 1929-30.	During 1929-30.	During 1930-31.
	RS.	RS.	RS.
Gross receipts	83,194	88,089	97,979
Working expenses	3,27,922	3,28,090	3,11,169
Net revenue	— 2,44,728	— 2,40,001	— 2,13,190

No. 58, Vedaranniyam Canal.

6. The canal is $34\frac{1}{2}$ miles long. The second, third and fourth reaches are maintained by the Public Works Department and the first and the fifth reaches by the Marine and Salt departments, respectively, as they are required in the interests of those departments. The gross receipts and working expenses amounted to Rs. 1,001 and Rs. 1,471, respectively, against Rs. 1,093 and Rupees 7,551 in the previous year. The loss was Rs. 470 on the working of the canal during the year against Rs. 6,458 in 1929-30.

CHAPTER VII—WORKS FOR WHICH CAPITAL AND REVENUE ACCOUNTS ARE NOT KEPT.**I. IRRIGATION WORKS.**

The number of works in this class during the year was as shown below :—

	Channels.	Tanks.	Other works.	Total.
In charge of Public Works Department	537	2,854	...	3,391
In charge of Revenue Depart- ment	5,529	25,142	1,646	32,317
Total	6,066	27,996	1,646	35,708

2. The area irrigated by, the outlay incurred on, and the revenue derived from works of this class are dealt with in paragraph 9 of Chapter III.

3. The subjoined statement shows the details of outlay during the year :—

Statement showing the outlay incurred in 1930-31 on " Works for which neither Capital nor Revenue accounts are kept—Irrigation works " (old class III Works) by minor heads.

Minor heads.	Ordinary minor works.		Old main- tenance charges.	Tank Restoration Scheme works.	Total.
	Public Works Department works.	Revenue Department works in charge of Public Works officers.			
	RS.	RS.	RS.	RS.	RS.
Works	44,815	601	..	..	45,416
Extensions and improvements ..	1,43,317	10,379	41,957	..	1,95,653
Maintenance and repairs	10,32,705	8,985	2,08,038	2,50,372	15,00,100
Establishment ..	3,23,702	3,984	68,155	60,144	4,55,985
Tools and plant ..	14,035	241	2,125	2,378	18,779
Miscellaneous ex- penditure	(a) 7,659	..	..	..	(a) 7,659
Total ..	15,66,233	24,190	3,20,275	3,12,894	22,23,592
Add outlay incurred by Civil Officers on Minor Irrigation works	..	..	..	..	(b) 16,21,918
Grand Total ..	..	..	..	..	38,45,510

(a) Represents net outlay in India on Other charges, Establishment and Tools and plant.

	RS.
(b) Works	35,045
Maintenance and repairs	13,22,944
Establishment	2,63,863
Tools and plant	66
Total ..	16,21,918

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4. The most important works carried out during the year were the following :—

Ganjam Division.

(1) *Excavating a leading channel on the right side of Koratholi Tampara (Estimate Rs. 27,000).*—The outlay during the year was Rs. 3,730 and to the end of the year Rs. 6,420. The work did not progress as anticipated owing to delay in the acquisition of land.

Guntur Division.

(2) *Restoring the Jammicheruvu of Makkinivarigudem (Estimate Rs. 57,000).*—The outlay during the year was Rs. 3,697 and to the end of the year Rs. 53,063. The work was almost completed.

North Arcot Division.

(3) *Restoring the Melmayal tank (Estimate Rs. 47,052).*—The outlay on the work during the year was Rs. 5,435. The work was completed.

Trichinopoly Division.

(4) *Improvements to the Musiri Nattu Voikal (Estimate Rs. 43,000).*—The outlay during the year was Rs. 491 and to the end of the year Rs. 26,386.

(5) *Improvements to the Thottiam Chinna Voikal (Estimate Rs. 29,000).*—The outlay during the year was Rs. 90 and to the end of the year Rs. 24,096.

5. The particulars of revenue derived from the works during the year are compared below with those of the previous year :—

	1929-30.	1930-31.
	RS.	RS.
Irrigation revenue	94,32,780	1,02,93,126
Receipts collected by the Public Works Department	1,05,978	1,23,052
Total	95,38,758	1,04,16,178

6. The net revenue of the year after deducting working expenses amounted to Rs. 66,27,021 against Rs. 59,05,300 in the previous year.

7. The progress made in the investigation and execution of Tank Restoration Scheme works is dealt with in paragraph 10 of Chapter II. The following table shows by districts the work done during and up to the end of the year 1930-31 :—

Table showing by district the works done during and up to the end of the year 1930-31.

Circles.	Districts.	Approximate area investigated.		Number of estimates sanctioned.		Amount of estimates sanctioned.	
		During the year 1930-31.	To the end of the year 1930-31.	During the year 1930-31.	To the end of the year 1930-31.	During the year 1930-31.	To the end of the year 1930-31.
		SQ. MLS.	SQ. MLS.			RS.	RS.
Waltair..	{ Ganjam ..	12	12	..	..	..	..
	{ Vizagapatam. ..	53	1,290	19	426	18,121	..
	{ Godavari ..	299	2,270	60	853	78,615	13,80,985
Bezwada.	{ Kistna ..	230	1,491	23	153	66,110	1,98,598
	{ Guntur ..	..	4,411	..	257	..	2,04,724
	{ Nellore ..	..	7,300	..	474	..	6,13,994
Madras ..	{ Kurnool ..	..	7,648	..	340	..	3,33,682
	{ Cuddapah ..	98	4,609	19	1,298	58,289	11,43,804
	{ Bellary ..	..	10,518	1	245	44,050	3,18,569
	{ Anantapur ..	..	7,830	7	784	29,561	10,57,667
	{ Chingleput ..	..	2,227	10	2,035	94,775	31,72,878
	{ Chittoor ..	..	5,093	16	564	24,315	5,41,541
Coimbatore.	{ Coimbatore ..	..	8,097	..	149	..	3,10,079
	{ Salem ..	..	6,052	..	1,264	..	11,09,457
	{ North Arcot..	27	4,659	32	2,062	68,980	25,07,748
Tanjore..	{ South Arcot. ..	75	800	35	667	67,661	15,21,568
	{ Tanjore ..	..	1,140	..	610	..	7,94,940
Trichinopoly.	{ Trichinopoly. ..	..	4,564	1	590	15,055	11,59,819
	{ Madura ..	..	4,836	..	1,644	..	14,95,984
	{ Tinnevely ..	35	1,969	20	923	50,204	12,89,824
	{ Ramnad ..	..	1,643	..	2	..	8,725
	Total ..	829	88,459	243	15,340	6,15,736	1,91,64,586

2. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.

8. The receipts which were realized by the sale of plantation and produce of trees along river embankments amounted to Rupees 86,398 against Rs. 85,342 in the previous year.

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9. The expenditure incurred amounted to Rs. 15,28,759 against Rs. 15,13,597 in the previous year as shown below :—

	1930-31.	1929-30.
	RS.	RS.
Works	19,236	39,784
Extensions and improvements ...	2,15,771	2,45,680
Maintenance and repairs ...	9,71,057	9,42,901
Establishment	3,08,361	2,65,021
Tools and plant	12,501	20,211
Other charges	1,833	Nil
Total ...	15,28,759	15,13,597

10. The only work of importance in progress during the year was "Improvements to Elathur Kallai Canal," West Coast division (Estimate Rs. 35,000). The outlay during the year was Rs. 6,732 and to the end of the year Rs. 28,889.

Madras,
21—12—1931.

N. SWAMINATHA AYYAR,
Chief Engineer for Irrigation.

APPENDIX I.

STATISTICAL STATEMENTS (*Prescribed by the Secretary of State*).

A-I.—Statement of Canals in the Madras Presidency for the year 1930-31.

(1)	Nagavalli river system.	Godavari delta system.	Kistna delta system.	Divi pumping system.	Pennër river canals system.	Kurnool- Cuddapah canal.	Poiney ancient system.	Cheyyar ancient system.	Tiruk- köylür ancient system.	Shatia- tope ancient system.	Lower Coleroon ancient system.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Source of supply of water ..	River Nagavalli.	River Godavari.	River Kistna.	Pumping from river Kistna.	River Pennër.	River Tunga- bhadra.	River Poiney.	River Cheyyar.	River Ponnai.	River Vellar.	River Cole- roon.
Minimum discharge of c. ft. river. per sec.	228	526	..	..	..	227	..	..	134	136	..
Maximum discharge of main canals, as designed.	414	12,772	13,284	718	8,392	2,000	3,217	1,542	1,271	850	..
Maximum discharge during the year.	384	11,836	12,612	651.62	6,827	1,931	621.09	395	834	1,150	..
Average rainfall for the year.	56.57	55.55	49.43	53.99	50.45	24.16	38.01	59.51	54.98	53.11	57.85
Gross area commanded .. Acres.	49,920	1,267,200	1,350,400	100,000	258,600	383,115	42,560	29,461	54,895	108,069	158,526
Culturable area command- ed.	31,200	961,253	900,000	80,000	190,000	357,569	23,824	29,461	45,977	43,965	117,233
Area irrigable by complete project.	27,658	840,000	775,600	50,000	165,385	130,282	23,824	23,629	45,977	43,965	110,308
Area irrigable at present ..	26,495	791,500	775,800	42,000	147,274	123,419	22,462	22,687	30,954	34,025	107,929
Sanctioned estimate—											
Direct charges Rs.	17,47,770	1,10,89,332	1,42,13,010	19,50,000	47,80,289	1,76,35,000	{ 2,67,178 6,379 ..	4,42,925 11,754 ..	3,66,759 9,189 ..	9,15,245 57,271 ..	18,69,597 71,259 ..
Indirect charges	68,530	19,34,864	9,81,160	48,000	10,06,096						
Interest during construc- tion.	2,93,217	1,11,38,052	1,28,24,716	3,23,617	22,88,418						
Total, Estimate	21,09,517	2,41,62,248	2,80,18,886	23,21,617	80,74,803	1,76,35,000	2,73,557	4,54,679	3,75,948	9,72,516	19,40,856

A-I.—Statement of Canals in the Madras Presidency for the year 1930-31—*cont.*

(1)	Nagavalli river system.	Gōdavari delta system.	Kistna delta system.	Divi pumping system.	Pennēr river canals system.	Kurnool- Cuddapah canal.	Poiney ancient system.	Cheygar ancient system.	Tiruk- kōyilār ancient system.	Shatia- tope ancient system.	Lower Coleroon ancient system.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Source of supply of water	River Nagavalli.	River Gōdavari.	River Kistna.	Pumping from river Kistna.	River Pennēr.	River Tunga- bhadra.	River Poiney.	River Cheyyar.	River Ponnar.	River Vellar.	River Coleroon.
Expenditure to end of 1930-31—											
Direct charges Rs.	16,81,776	1,56,18,439	1,81,65,221	25,89,259	57,60,859	2,38,13,676	2,95,106	5,21,242	3,89,189	10,18,565	31,52,419
Indirect do. „	42,332	20,47,585	11,43,138	61,621	10,14,718	73,438	8,812	15,173	10,001	59,151	89,984
Interest during construction	2,04,627	99,82,397	96,15,269	3,09,819	25,84,125	..	..	..	..	..	..
Total, Expenditure	19,28,735	2,76,48,421	2,89,23,628	29,60,699	93,59,702	2,38,87,114	3,03,918	5,36,415	3,99,190	10,77,716	32,42,403
Works as now sanctioned—											
Main canals, irrigation .. Miles. }	64½	511½	349	50	30¾	417½	{ 55	21	57	3	94
Branch canals do. .. „ }							{ 49	40	80	38	289
Distributaries „	47½	1,995½	2,185½	120¾	477	294½	78	120	28·23	149	620
Of above—											
Navigable „	..	507	382½	..	..	120	..	..	..	..	..
Works completed at end of 1930-1931—											
Main canals, irrigation .. Miles. }	64½	511½	349	50	30¾	417½	{ 55	21	57	3	94
Branch canals do. .. „ }							{ 49	40	80	38	289
Distributaries „	47½	1,995½	2,185½	120¾	477	294½	78	120	28·23	149	620
Of above—											
Navigable „	..	507	382½	..	..	120	..	..	..	..	..

A-I.—Statement of Canals in the Madras Presidency for the year 1930-31—*cont.*

		Cauvery delta system.	Srivai- kuntam anicut system.	Ganjam minor rivers system.	Muni- yeru system.	Sagileru system.	Arken- kota channel.	Thada- palli channel.	Kalinga- rayan channel.	Palar anicut system.	Valluru anicut system.	Mehamat- tur anicut system.
		(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
Source of supply of water ..	..	River Cauvery.	River Tambra- parni.	Rivers Langulya, Vamsadhara and Gari- bulagedda drain.	River Muni- yeru.	River Sagileru.	River Bhavani.	River Bhavani.	River Bhavani.	River Palar.	River Kortal- yar.	River Manimuk- tanadi.
Minimum discharge of river.	c. ft. per sec.	Not known.	..	} Not known {	..	37	} 552	} 725	} 893	..	..	163
Maximum discharge of main canals, as designed.	..	43,750	1,860		300	477				5,631	113	263
Maximum discharge during the year.	..	22,050	2,002		292	374	873.96	10,36.79	1,941.48	38.39	35.66	198
Average rainfall for the year	Inches.	56.71	27.62	45.88	38.60	25.44	36.23	36.23	58.26	45.46	73.86	43.72
Gross area commanded ..	Acres.	1,706,023	80,000	88,000	14,471	33,576	6,000	..	15,875	141,031	10,124	13,792
Culturable area commanded.	..	909,034	33,500	70,000	13,024	26,576	6,000	..	15,000	105,032	6,794	10,651
Area irrigable by complete project.	..	908,375	27,798	67,000	10,580	4,664	5,000	19,332	12,500	82,718	5,216	10,651
Area irrigable at present ..	..	900,926	27,798	66,800	10,000	4,664	4,845	15,400	12,327	78,668	5,216	4,555
Sanctioned estimate—												
Direct charges ..	Rs.	16,62,925	13,61,520	2,58,182	6,71,434	4,47,108	1,47,006	1,70,380	1,78,780	23,28,492	74,535	70,761
Indirect charges ..	..	1,66,767	1,15,286	10,203	28,000	17,619	3,676	11,050	4,506	1,16,752	1,666	1,897
Interest during construc- tion.	..	..	7,49,577	..	..	..	..	..	..	..	..	..
Total, Estimate ..	..	18,29,692	22,26,383	2,68,385	6,99,434	4,64,727	1,50,682	1,81,430	1,83,286	24,45,244	76,201	72,658

A-I.—Statement of Canals in the Madras Presidency for the year 1930-31--cont.

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	Cauvery delta system.	Srivai- kuntam ancient system.	Ganjam minor rivers system.	Muni- yeru system.	Sagileru system.	Arken- kota channel.	Thada- palli channel.	Kalinga- rayan channel.	Palar ancient system.	Vallura ancient system.	Mehamat- tur ancient system.
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
Source of supply of water	River Cauvery.	River Tambra- parni.	Rivers Langulya, Vamsadhara and Gari- bulagedda drain.	River Muni- yeru.	River Sagileru.	River Bhavani.	River Bhavani.	River Bhavani.	River Palar.	River Kortal- yar.	River Manimuk- tanadi.
Expenditure to end of 1930-31—											
Direct charges Rs.	71,13,559	16,67,459	2,76,193	5,71,308	4,47,108	1,40,769	1,66,383	1,75,980	23,48,502	74,366	73,372
Indirect do. „	2,55,978	1,07,604	11,017	29,751	17,619	3,676	11,063	4,506	1,17,304	1,916	2,009
Interest during construc- tion.	13,37,765	8,67,827	..	..	..	..	..	..	..	..	..
Total, Expenditure ..	87,07,302	26,42,890	2,87,210	6,01,059	4,64,727	1,44,445	1,77,446	1,80,486	24,65,806	76,282	75,381
Works as now sanctioned—											
Main canals, irrigation .. Miles.	1,258 $\frac{1}{4}$	28	119	26 $\frac{3}{4}$	12	20	48	57	196	5 $\frac{1}{2}$	7
Branch canals do. .. „	3,205	46	225	34	..	4	35	4	156	8	8
Distributaries „				6 $\frac{1}{2}$	..	..	..	..	..	8	9.26
Of above—											
Navigable „	..	..	..	..	..	..	..	..	..	..	..
Works completed at end of 1930-31—											
Main canals, irrigation. „	1,258 $\frac{1}{4}$	28	119	26 $\frac{3}{4}$	12	20	48	57	156	5 $\frac{1}{2}$	7
Branch canals do. .. „	3,205	46	225	34	..	4	35	4	139	8	8
Distributaries „				6 $\frac{1}{2}$	..	..	..	..	..	..	9.26
Of above—											
Navigable „	..	..	..	..	..	..	..	..	..	..	..

A-I.—Statement of Canals in the Madras Presidency for the year 1930-31—*cont.*

	Vridhdha- chalam anicut system.	Pelandorai anicut system.	Nandiyar channel system.	Marudur anicut system.	Nagava- ram anicut and supply channel.	Kaniyam- palayam anicut.	Ganjam- Gopalpur canal.	Bucking- ham canal.	Vedaran- niyam canal.	Pola- varam Island project.	Kattalai south bank canal.
	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)
Source of supply of water	River Manimuk- tanadi.	River Vellar.	River Nandiyar.	River Tambra- parni.	Gunja- neru.	River Bhavani.				Godavari central Delta Bank Canal.	Cauvery.
Minimum discharge of river. c.ft. per sec.	17	208	..	..	77.08	..	..	..	..	..	..
Maximum discharge of main canals, as designed. "	351	740	237	1,096.31	78	27.56	..	..	..	292	1,000
Maximum discharge during the year. "	299	248	122.72	963	78	..	..	..	..	287	1,000
Average rainfall for the year. Inches.	47.48	44.64	42.29	28.68	34.63	28.5	..	..	..	62.56	33.89
Gross area commanded .. Acres.	19,993	60,670	9,480	35,840	894	1,600	..	..	..	17,500	40,000
Culturable area commanded.. "	16,359	16,677	9,480	17,920	894	1,600	..	..	..	17,500	40,000
Area irrigable by complete project. "	15,559	16,000	9,480	17,920	894	400	..	..	..	17,500	40,000
Area irrigable at present .. "	8,829	12,837	7,084	17,920	894	213	..	..	..	13,150	36,623
Sanctioned estimate—											
Direct charges .. Rs.	84,191	6,42,823	63,231	50,541	1,07,295	1,36,343	1,43,100	85,56,015	1,32,699	17,97,194	9,60,000
Indirect do. .. "	2,494	47,800	2,484	1,265	2,595	3,757	12,393	4,88,256	3,733	24,463	41,000
Interest during construc- tion. "	..	..	..	..	..	..	..	..	..	..	..
Total, Estimate .. "	86,685	6,90,623	65,715	51,806	1,09,890	1,40,100	1,55,493	90,44,271	1,36,432	18,21,657	10,01,000
Expenditure to end of 1930-31—											
Direct charges .. "	84,191	6,43,302	63,231	58,721	1,07,295	1,17,841	1,43,100	85,76,069	1,22,699	15,19,376	11,45,542
Indirect do. .. "	2,494	48,772	2,484	1,401	2,595	3,853	12,393	4,89,336	3,733	25,079	33,035
Interest during construc- tion. "	..	..	..	..	..	..	..	..	..	..	..
Total, Expenditure .. "	86,685	6,92,074	65,715	60,122	1,09,890	1,21,694	1,55,493	90,65,405	1,36,432	15,44,455	11,78,577

A-I.—Statement of Canals in the Madras Presidency for the year 1930-31—*cont.*

		Vriddha- chalam anicut system.	Pelandorai anicut system.	Nandiyar channel system.	Marudur anicut system.	Nagava- ram anicut and supply channel.	Kaniyam- palayam anicut.	Ganjam- Gopalpur canal.	Bucking- ham canal.	Vedaran- niyam canal.	Pola- varam Island project.	Kattalai south bank canal.
		(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)
Source of supply of water		River Manimuk- tanadi.	River Vellar.	River Nandiyar.	River Tambra- parni.	Gunja- neru.	River Bhavani.				Godavari Delta Bank Canal.	Cauvery.
Works as now sanctioned—												
Main canals, irrigation .. Miles.		17	15	} 31	29	} 2	10 $\frac{3}{8}$	{ ..	262	34 $\frac{1}{2}$	..	18 $\frac{1}{4}$
Branch canals do. .. "		16	24		7 $\frac{1}{4}$		..		..	..	46 $\frac{1}{4}$	..
Distributaries "		16	25		..		..		..	..	..	..
Of above—												
Navigable "		..	..	..	..	..	..	..	262	31 $\frac{3}{4}$	..	..
Works completed at end of 1930-31—												
Main canals, irrigation .. Miles.		17	15	} 31	29	2	10 $\frac{3}{8}$	{ ..	262	34 $\frac{1}{2}$	..	18 $\frac{1}{4}$
Branch canals do. .. "		16	24		7 $\frac{1}{4}$	..	..		..	..	46 $\frac{1}{4}$	..
Distributaries "		16	25		..	..	..		..	..	..	..
Of above—												
Navigable "		..	..	..	..	..	..	..	262	31 $\frac{3}{4}$	..	..

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1930-31.

			Barur tank.	Periyar system.	Rushikulya system.	Janga-maheswara-puram tank.	Atmakur tank.	Dondapad tank.	Hajipuram tank.
			(1)	(2)	(3)	(4)	(5)	(6)	(7)
Source of supply of water			Ponnai river and local rivers.	Periyar and Vaigai rivers.	Mahanadi and Rushikulya rivers.	Catchment of Dondi vagu.	Catchment of Chandra-vanka and Kolaguntla vagus.	Rainfall ..	Domalern diverted into the tank.
If supplied by rainfall.	Area of catchment.	Sq. miles.	2,082	239	1,750	60	105	56	100
	Average rainfall during the year.	Inches.	37·89	79·61	56·89	26·70	29·86	25·33	33·28
	Contents of tank between levels of surface of full supply and sill of canal head sluice.	Mill. c. ft.	313·33	9,605	3,500	79	164	288·38	309
Area of surface at full supply ..		Acres.	685	10·20	4,948	619	575	705	1,600
Gross area commanded ..		"	6,887	768,000	230,880	960	1,700	3,240	2,900
Culturable area commanded ..		"	6,887	Not known.	142,000	960	1,160	2,880	2,900
Area irrigable by complete project.		"	6,887	143,000	120,000	960	1,160	1,930	1,420
Area irrigable at present ..		"	3,750	143,000	109,182	960	1,160	1,930	1,420
Wells supplied by tanks ..		"	..	..	..	..	..	..	..
Sanctioned estimate—									
Direct charges		Rs.	4,00,000	84,71,000	45,53,000	61,253	1,09,951	1,24,786	2,78,774
Indirect do.		"	25,300	2,79,000	3,92,820	10,411	13,428	15,218	33,109
Interest during construction ..		"	41,439	16,23,606	14,91,004	..	..	..	..
Total, Estimate		"	4,66,739	1,03,73,606	64,36,824	71,664	1,23,379	1,40,004	3,11,883
Expenditure to end of 1930-31—									
Direct charges		"	4,19,375	1,04,32,769	49,81,590	61,253	1,09,951	1,24,786	2,78,774
Indirect do.		"	23,738	3,70,787	4,19,141	10,411	13,428	15,218	33,109
Interest during construction ..		"	80,175	16,06,402	16,69,901	..	..	..	..
Total, Expenditure		"	5,23,288	1,24,09,958	70,70,632	77,664	1,23,379	1,40,004	3,11,883

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1930-31—*cont.*

—			Barur tank.	Periyar system.	Rushikulya system.	Janga-maheswara-puram tank.	Atmakur tank.	Dondapad tank.	Hajipuram tank.
			(1)	(2)	(3)	(4)	(5)	(6)	(7)
Source of supply of water ..			Ponnai river and local rivers.	Periyar and Vaigai rivers.	Mahanadi and Rushikulya rivers.	Catchment of Dondi vagu.	Catchment of Chandra vanka and Kolaguntla vagus.	Rainfall ..	Domaleru diverted into the tank.
Works now sanctioned—									
Dam (earth) or masonry, total height.	Feet.		28 (earth)	173	{ (a) 57.7 (earth). (b) 44	} 24 (partly earth and partly masonry).	33 (partly earth and partly masonry).	23 (partly earth and partly masonry).	6 (masonry).
Canals	Miles.		11	145	80	.. 5½	.. 4½	.. 6½	.. 7½
Distributaries	..		26	106	225	.. 5½	.. 4½	.. 6½	.. 7½
Works completed at end of 1930-31—									
Dam (height completed) ..	Feet.		28 (earth)	173	{ (a) 57.7 earth. (b) 44	} 24	33	23	6
Canals	Miles.		11	145	80	.. 5½	.. 4½	.. 6½	.. 4½
Distributaries	..		26	106	151	.. 5½	.. 4½	.. 6½	.. 4½

(a) Russellkonda reservoir.

(b) Surada reservoir.

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1930-31—*cont.*

			Ponnalur tank.	Anamasamudram Berapura tank.	Yerur tank.	Cumbum tank.	Markapur tank.	Madras water-supply and irrigation system.	Chembrambakkam tank.	Bhavanasi tank.
			(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Source of supply of water ..			Gudiseleru diverted into the tank.	Beraperu river. and also spill from Challakalva branch of Swarnamuki.	Rainfall and surplus of upper tanks	Gundlakamma and Jampeleru rivers.	Gundlakamma river.	Kortalyar river.	Cooum river.	Rainfall.
If supplied by rainfall.	Area of catchment.	Sq. miles.	32.14	23.62	60.50	430	270.25	34	100	43
	Average rainfall during the year.	Inches.	47.63	44.13	60.66	26.59	28.09	70.57	59	42.27
Contents of tank between levels of surface of full supply and sill of canal head sluice.		Mill. c. ft.	180.512	90.57	317.69	2,942.17	124.52	2,729.864	3,146	174.64
Area of surface at full supply ..		Acres.	719	474	3,285	5,697	811	5,361	5,729	650
Gross area commanded ..		"	1,973	1,000	3,176	7,860	1,931	16,129	32,554	2,700
Culturable area commanded ..		"	1,973	1,000	3,176	6,000	1,701	10,165	24,478	2,448
Area irrigable by complete project.		"	1,000	1,000	3,176	6,000	1,701	9,852	18,000	841
Area irrigable at present ..		"	1,000	961	1,470	5,980	1,583	9,852	18,000	841
Wells supplied by tanks ..		"	..	..	..	..	..	..	..	..
Sanctioned estimate—										
Direct charges		Rs.	1,90,887	71,687	61,741	83,985	1,16,657	15,47,123	6,48,970	2,02,289
Indirect do.		"	25,011	1,886	1,612	2,388	4,001	2,38,945	1,12,647	6,711
Interest during construction ..		"	..	..	..	..	..	..	..	47,173
Total, Estimate		"	2,15,898	73,573	63,353	86,373	1,20,658	17,86,068	7,61,517	2,56,173
Expenditure to end of 1930-31—										
Direct charges		"	1,92,975	71,687	61,741	83,985	1,24,481	16,18,658	6,51,348	2,54,395
Indirect do.		"	25,674	1,886	1,612	2,388	4,859	2,39,967	1,12,795	11,096
Interest during construction ..		"	..	..	..	..	..	..	..	29,806
Total, Expenditure		"	2,18,649	73,573	63,353	86,373	1,29,340	18,58,625	7,64,143	2,95,297

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1930-31—*cont.*

		Ponnalur tank.	Anamasamudram Berapura tank.	Yerur tank	Cumbum tank.	Markapur tank.	Madras water-supply and irrigation system.	Chembrambakkam tank.	Bhavanasi tank.
		(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Source of supply of water		Gudiseleru diverted into the tank.	Beraperu river. and also spill from Challa-kalva branch of Swarnamuki.	Rainfall and surplus of upper tanks	Gundla-kamma and Jampeleru rivers.	Gundla-kamma river.	Kortalyar river.	Cooum river.	Rainfall.
Works now sanctioned—									
Dam (earth or masonry) total height.	Feet.	21½	..	..	56 (earth)	22 (earth)	30 (earth)	25 (earth)	20 (earth).
Canals	Miles.	..	..	..	..	7½	11¼	10⅜	6⅜
Distributaries	"	9½	2½	..	26¾	..	..	1⅝	..
Works completed at end of 1930-31—									
Dam (height completed) ..	Feet.	21½	..	..	56 (earth)	22 (earth)	30 (earth)	25 (earth)	20
Canals	Miles.	..	..	..	..	7½	11¼	10⅜	6⅜
Distributaries	"	7	2½	..	23¾	..	..	1⅝	..

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1930-31—*cont.*

	Yellanur tank.	Kocheru tank.	Venkata-puram tank.	Siddapur tank.	Panjapatti reservoir.	Mopad reservoir.	Toludur (Wellington) reservoir.
	(16)	(17)	(18)	(19)	(20)	(21)	(22)
Source of supply of water	Catchment basin and supply from Chitravati river.	Free catchment.	Free basin and supply from Dhona vagu.	Bhavanasi and other vagus.	Drainage basin.	Manneru river.	Vellar river and rainfall.
If supplied by { Area of catchment. Sq. miles. 20.5 rainfall. { Average rainfall Inches. 20.78 during the year. 26.33	20.5	63.25	51	45	108	250	50
Contents of tank between levels of surface of full supply and sill of canal head sluice. Mill. c. ft.	342.5	145	237	636	225	2,007	2,433.882
Area of surface at full supply .. Acres.	2,617	422	448	1,125	609	3,100	3,898
Gross area commanded	1,707	1,026	1,700	4,900	2,500	13,890	38,400
Culturable area commanded	1,641	1,026	1,700	4,250	900	13,890	28,800
Area irrigable by complete project.	925	1,026	1,700	4,250	900	12,500	27,600
Area irrigable at present	914	194	239	3,730	638	12,500	25,000
Wells supplied by tanks	..	..	..	..	..	..	..
Sanctioned estimate—							
Direct charges Rs.	2,35,711	1,22,800	3,31,776	9,21,986	3,36,090	21,97,000	29,60,000
Indirect do.	30,089	8,700	14,824	26,620	68,510	1,00,000	2,50,000
Interest during construction	..	..	..	..	..	..	..
Total, Estimate	2,65,800	1,31,500	3,46,600	9,48,600	4,04,600	22,97,000	32,10,000
Expenditure to end of 1930-31—							
Direct charges Rs.	2,39,192	1,24,605	3,72,250	7,91,038	3,27,781	21,93,275	23,35,870
Indirect do.	30,515	11,129	12,671	13,448	11,495	96,422	2,50,810
Interest during construction	..	..	71,315	..	..	..	..
Total, Expenditure	2,69,707	1,35,734	4,56,236	8,04,486	3,39,276	22,89,697	25,86,680

A-II.—Statement of Reservoir Projects in the Madras Presidency for the year 1930-31—*cont.*

		Yellanur tank.	Koohervu tank.	Venkata-puram tank.	Siddapur tank.	Panjapatti reservoir.	Mopad reservoir.	Toludur (Wellington) reservoir.
		(16)	(17)	(18)	(19)	(20)	(21)	(22)
Source of supply of water		Catchment basin and supply from Chitravati river.	Free catchment.	Free basin and supply from Dhona vagus.	Bhavanasi and other vagus.	Drainage basin.	Manneru river.	Vellar river and rainfall.
Works now sanctioned—								
Dam (earth or masonry) total height.	Feet.	15	33	31 (earth.)	27.5	40 (core wall)	71½ (earth)	50 (earth)
Canals	Miles.	..	..	3¼	6½	..	16⅞	31¼
Distributaries	"	3⅞	1⅞	..	9	5	8½	40
Works completed to end of 1930-31—								
Dam (height completed) ..	Feet.	15	33	31 (earth)	27.5	40	71½	49¼ (earth)
Canals	Miles.	..	..	3¼	6⅞	..	16⅞	31¼
Distributaries	"	3⅞	1⅞	..	9	1½	8½	39¼

B-I.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works classed as Productive and Unproductive, for which Capital and Revenue Accounts are kept in the Madras Presidency for the year of 1930–31.

Works or systems.		Direct charges (net expenditure).					Indirect charges.	Total excluding interest.	Simple interest.
		Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account.			
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(10)
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS.									
1. PRODUCTIVE WORKS.									
Cauvery delta system.	To end of previous year ..	55,69,762	11,53,250	1,28,769	— 1	6,761	68,45,019	2,52,301	66,55,869
	During the year ..	2,20,200	49,551	2,400	..	3,611	2,68,540	3,677	2,92,200
Srivaikuntam anicut.	To end of previous year ..	13,23,683	3,33,353	10,792	..	369	16,67,459	1,07,604	31,25,119
system.	During the year ..	..	..	..	..	..	..	..	56,813
Godavari delta system.	To end of previous year ..	1,14,69,427	29,40,335	9,46,622	..	2,647	1,53,53,737	20,45,328	2,82,71,373
	During the year ..	2,13,380	52,504	2,831	..	4,013	2,64,702	2,257	5,67,767
Mehamattur anicut.	To end of previous year ..	59,374	13,990	8	..	..	73,372	2,009	1,59,380
system	During the year ..	..	..	..	..	..	..	..	2,495
Thadapaili channel ..	To end of previous year ..	1,36,531	29,836	16	..	..	1,66,383	11,063	3,09,370
	During the year ..	..	..	..	..	..	..	..	5,567
Kalingarayan channel.	To end of previous year ..	1,43,789	32,191	..	..	..	1,75,980	4,506	2,38,020
	During the year ..	..	..	..	..	..	..	..	5,852
Vriddhachalam anicut.	To end of previous year ..	68,616	15,575	..	..	..	84,191	2,494	1,43,829
system.	During the year ..	..	..	..	..	..	..	..	2,799
Pelandorai anicut.	To end of previous year ..	5,20,637	1,17,426	6,037	..	798	6,43,302	48,772	10,37,000
system.	During the year ..	..	..	..	..	..	..	..	22,073
Chembrambakkam tank.	To end of previous year ..	5,14,255	1,28,958	8,249	..	114	6,51,348	1,12,795	13,69,611
	During the year ..	..	..	..	..	..	..	..	21,914
Marudur anicut.	To end of previous year ..	47,925	10,820	— 24	..	..	58,721	1,401	85,377
system.	During the year ..	..	..	..	..	..	..	..	2,125
Pennar river canals.	To end of previous year ..	46,47,730	9,68,653	1,44,521	..	2,858	57,58,046	10,14,697	97,96,045
system	During the year ..	2,122	671	20	..	..	2,813	21	1,92,924
Arkenkotta channel.	To end of previous year ..	1,14,505	26,264	..	..	..	1,40,769	3,676	2,69,734
	During the year ..	..	..	..	..	..	..	..	4,681

Works or systems.		Direct charges (net expenditure).					Indirect charges.	Total excluding interest.	Simple interest.		
		Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account.				Total.	
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
A. IRRIGATION WORKS—cont.											
1. PRODUCTIVE WORKS—cont.											
Tirukkōyilār	anicut	To end of previous year ..	3,18,375	70,709	105	..	..	3,89,189	10,001	3,99,190	6,39,222
system.		During the year ..	..	..	..	..	..	..	..	..	13,415
Shatiatope	anicut	To end of previous year ..	8,93,412	1,22,527	628	..	..	10,16,567	59,136	10,75,703	8,46,169
system.		During the year ..	1,499	490	9	..	..	1,998	15	2,013	36,001
Palar	anicut system.	To end of previous year ..	18,50,032	4,69,052	30,041	..	672	23,48,453	1,17,304	24,65,757	48,15,299
		During the year ..	39	9	1	..	..	49	..	49	78,627
Cheyyar	anicut	To end of previous year ..	4,16,745	1,08,079	715	..	50	5,20,489	15,167	5,35,656	8,85,091
system.		During the year ..	600	138	15	..	..	753	6	759	19,333
Cumbum tank		To end of previous year ..	68,701	15,284	..	..	..	83,985	2,388	86,373	1,24,389
		During the year ..	..	..	..	..	..	..	..	..	2,793
Poincy	anicut system.	To end of previous year ..	2,34,263	60,576	267	..	..	2,95,106	8,812	3,03,918	5,53,565
		During the year ..	..	..	..	..	..	..	..	..	11,023
Periyār	system	To end of previous year ..	80,00,949	16,80,476	7,66,828	..	21,311	1,04,26,942	3,70,744	1,07,97,686	1,29,99,831
		During the year ..	4,242	1,544	41	..	..	5,827	43	5,870	3,49,684
Kistna delta	system ..	To end of previous year ..	1,40,62,992	33,60,096	7,16,656	..	21,812	1,81,17,932	11,42,781	1,92,60,713	2,68,15,425
		During the year ..	35,684	11,263	342	..	..	47,289	357	47,646	6,64,268
Nandiyar	channel	To end of previous year ..	51,476	11,755	..	..	..	63,231	2,484	65,715	72,635
system.		During the year ..	..	..	..	..	..	..	..	..	2,136
Ganjam minor river		To end of previous year ..	2,26,350	49,426	417	..	..	2,76,193	11,017	2,87,210	2,88,548
system.		During the year ..	..	..	..	..	..	..	..	..	9,565
Lower	Coleroon	To end of previous year ..	26,22,766	5,03,122	17,221	..	1,153	31,41,956	89,901	32,31,857	27,99,131
anicut system.		During the year ..	8,331	2,722	48	..	638	10,463	83	10,546	1,31,669
Divi pumping	system.	To end of previous year ..	14,98,471	3,92,502	6,77,303	..	490	25,67,786	61,459	26,29,245	16,91,491
		During the year ..	16,203	5,114	156	..	..	21,473	162	21,635	1,00,086
Toludur	reservoir	To end of previous year ..	15,73,913	4,64,760	3,05,910	..	9,815	23,34,768	2,50,802	25,85,570	12,05,638
project.		During the year ..	827	270	5	..	..	1,102	8	1,110	1,09,552

B-1.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works classed as Productive and Unproductive, for which Capital and Revenue Accounts are kept in the Madras Presidency for the year of 1930-31—*cont.*

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Works or systems.		Direct charges (net expenditure).					Indirect charges.	Total excluding interest.	Simple interest.	
		Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account.				Total.
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS— <i>cont.</i>		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS— <i>cont.</i>										
Polavaram island project.	To end of previous year ..	11,43,161	3,26,684	12,917	..	4,099	14,78,663	24,348	15,03,011	1,95,598
	During the year ..	32,329	7,955	429	..	..	40,713	731	41,444	81,547
Cauvery-Mettur project.	To end of previous year ..	3,06,99,432	29,86,333	2,21,906	6,71,290	4,21,516	3,41,57,445	6,89,490	3,48,46,935	34,36,989
	During the year ..	86,61,646	8,45,091	27,300	— 63,735	1,98,635	92,71,667	1,31,104	94,02,771	21,10,391
Kattalai scheme ..	To end of previous year ..	9,85,404	1,46,663	46,097	..	3,930	11,74,234	33,242	12,07,476	2,25,688
	During the year ..	— 20,752	— 7,730	— 210	..	..	— 28,692	— 207	— 28,899	63,098
Total, A. Irrigation works—1. Productive works.	To end of previous year ..	8,92,62,676	1,65,33,695	40,42,001	6,71,289	4,98,395	11,00,11,266	64,95,722	11,65,06,988	10,90,05,436
	During the year ..	91,76,350	9,69,592	33,387	— 63,735	2,06,897	99,08,697	1,38,257	1,00,46,954	49,60,398
2. UNPRODUCTIVE WORKS.										
Kurnool-Cuddapah canal.	To end of previous year ..	1,90,93,092	3,80,864	40,84,003	..	2,44,283	2,33,13,676	73,438	2,33,87,114	3,92,03,463
	During the year ..	..	..	..	..	..	..	..	..	7,84,643
Barur tank	To end of previous year ..	3,35,765	76,701	6,931	..	22	4,19,375	23,738	4,43,113	6,61,326
	During the year ..	..	..	..	..	..	..	..	..	13,945
Valluru ancient system.	To end of previous year ..	60,662	13,679	25	..	..	74,366	1,916	76,282	1,52,000
	During the year ..	..	..	..	..	..	..	..	..	2,700
Madras water-supply and irrigation system.	To end of previous year ..	13,85,791	2,29,029	6,928	..	1,302	16,20,446	2,39,982	18,60,428	34,97,944
	During the year ..	— 1,497	— 285	— 6	..	..	— 1,788	— 15	— 1,803	55,395
Rushikulya system ..	To end of previous year ..	39,43,135	8,52,525	1,29,377	..	65,853	48,59,184	4,18,177	52,77,361	64,01,073
	During the year ..	96,370	24,420	1,616	..	..	1,22,406	964	1,23,370	1,68,822

I.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works classed as Productive and Unproductive, for which Capital and Revenue Accounts are kept in the Madras Presidency for the year of 1930-31—*cont.*

Works or systems.	Direct charges (net expenditure).						Indirect charges.	Total excluding interest.	Simple interest.
	Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	RS.	RS.	RS.		RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS— <i>cont.</i>									
2. UNPRODUCTIVE WORKS— <i>cont.</i>									
Muniyuru system	To end of previous year ..	4,64,796	1,04,516	3,728	..	1,732	5,71,308	29,751	6,62,657
	During the year ..	..	..	..	..	..	..	..	19,046
Dondapad tank	To end of previous year ..	1,05,848	18,945	..	..	7	1,24,786	15,218	1,40,004
	During the year ..	..	..	..	..	..	..	..	4,149
Yerar tank	To end of previous year ..	50,219	11,522	..	..	..	61,741	1,612	63,353
	During the year ..	..	..	..	..	..	..	..	2,053
Sagileru system	To end of previous year ..	3,54,321	80,339	12,449	..	1	4,47,108	17,619	4,64,727
	During the year ..	..	..	..	..	..	..	..	5,48,932
Atmakur tank	To end of previous year ..	91,202	18,749	..	..	..	1,09,951	13,428	1,23,379
	During the year ..	..	..	..	..	..	..	..	14,867
Janganaheswarapuram tank.	To end of previous year ..	52,564	8,689	..	..	..	61,253	10,411	71,664
	During the year ..	..	..	..	..	..	..	..	55,347
Anamasamudram-Berapura tank.	To end of previous year ..	58,421	13,266	..	..	..	71,687	1,886	73,573
	During the year ..	..	..	..	..	..	..	..	56,097
Hajipuram tank	To end of previous year ..	2,30,686	48,308	..	..	220	2,78,774	33,109	3,11,883
	During the year ..	..	..	..	..	..	..	..	2,32,186
Ponnalur tank	To end of previous year ..	1,61,263	51,658	54	..	..	1,92,975	25,674	2,18,649
	During the year ..	..	..	..	..	..	..	..	9,270
Markapur tank	To end of previous year ..	1,01,374	23,066	41	..	..	1,24,481	4,859	1,29,340
	During the year ..	..	..	..	..	..	..	..	6,980
Nagavalli river system.	To end of previous year ..	13,21,374	2,70,103	93,282	..	4,303	16,80,456	42,322	17,22,778
	During the year ..	1,039	264	17	..	..	1,320	10	1,330
Venkatapuram tank	To end of previous year ..	3,03,994	64,539	4,236	..	519	3,72,250	12,671	3,84,921
	During the year ..	..	..	..	..	..	..	..	2,26,758
									12,933

B-I.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works classed as Productive and Unproductive, for which Capital and Revenue Accounts are kept in the Madras Presidency for the year of 1931—*cont.*

Works or systems.	Direct charges (net expenditure).						Indirect charges.	Total excluding interest.	Simple interest.
	Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS— <i>cont.</i>									
Bhavanasi tank .. { To end of previous year ..	1,85,579	43,103	25,710	..	297	2,54,395	11,046	2,65,491	1,40,103
.. { During the year ..	..	..	..	..	..	..	..	..	10,060
Yellanur tank .. { To end of previous year ..	1,91,292	41,156	7,087	..	343	2,39,192	30,515	2,69,707	1,51,451
.. { During the year ..	..	..	..	..	..	..	..	..	8,338
Kocheruvu tank .. { To end of previous year ..	1,01,461	22,158	1,046	..	60	1,24,605	11,129	1,35,734	76,338
.. { During the year ..	..	..	..	..	..	..	..	..	4,330
Panjapatti reservoir .. { To end of previous year ..	2,24,998	43,411	60,075	..	703	3,27,781	11,495	3,39,276	1,78,207
.. { During the year ..	..	..	..	..	..	..	..	..	26,391
Siddapur tank .. { To end of previous year ..	5,22,751	96,255	1,72,474	..	442	7,91,038	13,448	8,04,486	4,45,052
.. { During the year ..	..	..	..	..	..	..	..	..	3,568
Nagavaram anicut and supply channel. { To end of previous year ..	88,757	18,538	..	..	..	1,07,295	2,595	1,09,890	60,330
.. { During the year ..	..	..	..	..	..	..	..	..	81,468
Mopad reservoir system. { To end of previous year ..	16,66,575	3,20,381	2,34,213	..	27,894	21,93,275	96,422	22,89,697	13,31,452
.. { During the year ..	..	..	..	..	..	..	..	..	5,906
Kanniyampalayam anicut. { To end of previous year ..	97,291	27,035	495	..	3,540	1,21,381	3,853	1,25,234	69,794
.. { During the year ..	..	..	..	..	3,540	— 3,540	..	— 3,540	12,532
Tippayapalem project. { To end of previous year ..	53,293	16,701	295	..	447	69,842	7,822	77,664	18,521
.. { During the year ..	144	27	1	..	209	— 87	2	— 35	3,798
Easavannah channel.. { To end of previous year ..	3,29,550	83,672	1,815	..	..	4,15,040	5,178	4,20,218	45,531
.. { During the year ..	73,236	13,934	279	..	..	87,449	782	88,181	21,967
Total. A. Irrigation works—Unproductive works. { To end of previous year ..	3,15,76,454	29,58,908	48,44,267	..	3,51,968	3,90,27,661	11,59,364	4,01,87,025	5,59,86,617
.. { During the year ..	1,69,292	38,360	1,907	..	3,749	2,05,810	1,693	2,07,503	13,48,399
Total. A. Irrigation works. { To end of previous year ..	12,08,39,130	1,94,92,608	88,86,268	6,71,289	8,50,363	14,90,38,927	76,55,086	15,66,94,013	16,49,92,033
.. { During the year ..	93,45,642	10,07,952	35,294	—63,735	2,10,646	1,01,14,507	1,39,960	1,02,54,457	63,05,797

B-I.—Capital Accounts of Irrigation, Navigation, Embankment and Drainage Works classed as Productive and Unproductive, for which Capital and Revenue Accounts are kept in the Madras Presidency for the year of 1930-31—*cont.*

Works or systems.	Direct charges (net expenditure).						Indirect charges.	Total excluding interest.	Simple interest.
	Works.	Establishment.	Tools and plant.	Suspense.	Deduct receipts on capital account	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS.									
Ganjam-Gopalpur canal. { To end of previous year ..	1,02,675	37,799	2,733	..	107	1,43,100	12,393	1,55,493	2,18,552
{ During the year ..	..	..	..	..	..	..	..	..	4,758
Vedaranniyam canal. { To end of previous year ..	1,07,885	24,814	..	..	..	1,32,699	3,733	1,36,432	3,13,457
{ During the year ..	..	..	..	..	..	..	..	..	4,412
Buckingham canal .. { To end of previous year ..	68,07,066	16,10,638	1,80,992	..	24,365	85,74,331	4,89,322	90,63,653	1,56,38,788
{ During the year ..	1,401	329	8	..	..	1,738	14	1,752	2,86,349
Total, B. Navigation, etc., works—2. Unproductive works. { To end of previous year ..	70,17,626	16,73,251	1,83,725	..	24,472	88,50,130	5,05,448	93,55,578	1,61,70,797
{ During the year ..	1,401	329	8	..	..	1,738	14	1,752	2,95,519
Total, B. Navigation, etc., works. { To end of previous year ..	70,17,626	16,73,251	1,83,725	..	24,472	88,50,130	5,05,448	93,55,578	1,61,70,797
{ During the year ..	1,401	329	8	..	..	1,738	14	1,752	2,95,519
Total, Construction of Irrigation, etc., works. { To end of previous year ..	12,78,56,756	2,11,65,854	90,69,993	6,71,289	8,74,835	15,78,89,057	81,60,534	16,60,49,591	18,11,63,850
{ During the year ..	93,47,043	10,08,281	35,302	—63,735	2,10,646	1,01,16,245	1,39,964	1,02,56,209	66,04,316

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31.

Works or systems.	Revenue (actual receipts).										
	Irrigation.			Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.
	Irrigation revenue.	Share of land revenue.	Total.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
A. IRRIGATION WORKS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS.											
1. Cauvery delta system ..	40,99,509	1,23,984	42,23,493	..	6,982	8,541	42,39,016	383	42,38,633	34,00,000	8 38,633
2. Srivaikuntam anicut system ..	2,36,614	1,490	2,38,104	..	749	4,317	2,43,170	..	2,43,170	79,000	1,64,170
3. Godavari delta system ..	38,97,112	2,24,272	41,21,384	1,54,732	10,201	51,200	43,37,567	1,734	43 35,833	1,24,000	42,11,833
4. Mehamattur anicut system ..	24,979	184	25,163	..	36	43	25,242	..	25,242	4,000	21,242
5. Thadapalli channel ..	1,39,514	2,929	1,42,443	..	1,244	107	1,43,794	..	1,43,794	76,000	67,794
6. Kalingarayan channel ..	1,30,431	483	1,30,914	..	2,072	126	1,33,111	..	1,33,111	85,000	48,111
7. Vriddhachalam anicut system.	41,459	339	41,798	..	294	91	42,183	..	42,183	8,500	33,683
8. Pelandurai anicut system ..	59,862	86	59,948	..	74	423	61,116	..	61,116	3,000	58,116
9. Chembambakkam tank ..	56,008	957	56,965	..	..	238	57,03	..	57,203	16,000	41,203
10. Marudur anicut system ..	2,09,659	279	2,09,938	..	..	2,083	2,12,041	..	2,12,021	1,15,000	97,021
11. Pennar river canal system ..	8,86,516	66,937	9,53,453	94	..	5,737	9,59,314	..	9,59,314	2,56,000	7,03,314
12. Arkenkotta channel ..	38,516	428	38,943	..	287	33	39,263	..	39,263	19,000	20,263
13. Tirakkoyilur anicut system ..	1,37,525	3,369	1,40,894	..	811	240	1,41,955	..	1,41,915	60,000	81,915
14. Shatiatope anicut system ..	1,64,121	17,031	1,81,152	..	426	467	1,82,045	..	1,82,045	20,000	1,62,045
15. Palar anicut system ..	3,53,972	16,842	3,70,814	..	474	903	3,72,191	..	3,72,191	1,25,000	2,47,191
16. Cheyyar anicut system ..	1,12,413	4,735	1,17,148	..	296	1,013	1,18,456	1	1,18,456	39,000	79,456
17. Cumbum tank ..	19,020	461	19,481	..	..	..	19,481	..	19,481	30,000	10,519
18. Poiney anicut system ..	1,24,183	5,462	1,29,645	..	82	121	1,29,848	..	1,29,848	38,000	91,848
19. Periyar system ..	9,92,807	94,686	10,87,493	2,667	7,075	11,314	11,08,549	29,310	10,79,239	2,04,000	8,75,239
20. Kistna delta system ..	38,66,574	1,88,314	40,54,888	1,13,929	5,632	66,518	42,40,967	592	42,40,375	71,000	41,69,375
21. Nandiyar channel system ..	29,465	76	29,541	..	433	14	29,588	70	29,918	17,000	12,918
22. Ganjam minor river system ..	1,51,631	7,800	1,59,431	..	21	178	1,59,630	..	1,59,630	95,000	64,630
23. Lower Coleroon anicut system.	5,51,183	51,515	6,02,698	4	3,818	4,587	6,11,167	69	6,11,098	1,55,000	4,56,098

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

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Works or systems.	Revenue (actual receipts).										
	Irrigation.			Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.
	Irrigation revenue.	Share of land revenue.	Total.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
A.—IRRIGATION WORKS <i>—cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS—<i>cont.</i>											
24. Divi pumping system	1,86,779	87,205	2,73,984	3,645	..	3,213	2,80,842	33	2,80,809	20,300	2,60,509
25. Toludur reservoir project ..	1,27,477	448	1,27,925	..	3	468	1,28,396	..	1,28,396	10,590	1,17,806
26. Polavaram Island project ..	1,06,240	..	1,06,240	..	53	277	1,06,570	..	1,06,570	..	1,06,570
27. Cauvery-Mettur project	..	..	..	..	..	..	..	..	..	..	..
28. Kattalai scheme	2,37,123	15	2,37,138	..	2,949	801	2,40,888	26	2,40,862	2,54,000	— 13,138
Total, A. Irrigation works—1. Productive works.	1,69,80,721	9,00,327	1,78,81,048	2,75,071	44,742	1,63,102	1,83,63,963	32,218	1,83,31,745	53,24,390	1,30,07,355
2. UNPRODUCTIVE WORKS.											
1. Kurnool-Cuddapah canal	3,50,163	2,550	3,52,713	542	..	10,360	3,63,615	274	3,63,341	35,872	3,27,469
2. Barur tank	22,763	758	23,521	..	749	955	25,224	..	25,224	4,500	20,724
3. Valluru anicut	7,407	1,074	8,481	..	..	271	8,752	40	8,712	5,000	3,712
4. Madras water-supply and irrigation system.	26,921	462	27,383	..	..	40,961	68,344	..	68,344	11,000	57,344
5. Rushikulya system	2,51,783	6,002	2,57,785	..	571	2,144	2,60,500	..	2,60,500	67,000	1,93,500
6. Muniyeru system	37,795	60	37,855	..	..	785	38,640	..	38,640	2,500	36,140
7. Dondapad tank	636	10	646	..	..	..	646	..	646	..	646
8. Yerur tank	4,100	86	4,186	..	..	..	4,186	..	4,186	125	3,761
9. Sagileru system	18,308	26	18,334	..	..	45	18,379	..	18,379	17,800	579

5.1—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems. (1)	Revenue (actual receipts).										
	Irrigation.			Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.
	Irrigation revenue.	Share of land revenue.	Total.								
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	RS.	RS.	RS.			RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS—<i>cont.</i>											
2. UNPRODUCTIVE WORKS—<i>cont.</i>											
10. Atmakur tank	2,974	..	2,974	..	..	..	2,974	..	2,974	..	2,974
11. Jangamtheswarapuram tank ..	1,325	..	1,325	..	..	..	1,325	..	1,325	500	825
12. Anamasamudram-Beraperu tank.	5,572	1	5,573	..	..	..	5,573	..	5,573	3,600	1,973
13. Hajipuram tank	2,827	15	2,832	..	..	329	3,211	..	3,211	..	3,211
14. Ponnalur tank	5,424	..	5,424	..	..	..	5,424	..	5,424	..	5,424
15. Markapur tank	6,982	1	6,983	..	..	..	6,983	..	6,983	2,130	4,853
16. Nagavalli river system ..	1,04,168	21,214	1,25,340	..	..	651	1,25,991	..	1,25,991	37,400	88,591
17. Venkatapuram tank	922	23	945	..	..	..	945	..	945	164	781
18. Bhavanasi tank	5,205	..	5,205	..	..	35	5,240	..	5,240	..	5,240
19. Yellanur tank	3,096	1,104	4,200	..	..	..	4,200	..	4,200	..	4,200
20. Kocheruvu tank	924	9	1,003	..	..	..	1,003	..	1,003	980	23
21. Panjapatti reservoir	11	595	72	..	..	111	823	..	823	..	823
22. Chidambur tank	186	..	186	..	..	..	186	..	186	..	186
23. Nagavaram aicut and supply channel.	4,037	146	4,183	..	..	..	4,183	..	4,183	2,256	1,927
24. Mopad reservoir system ..	37,908	5,137	43,045	..	..	382	43,427	126	43,301	433	42,868
25. Kaniyampalayam aicut	..	..	..	..	..	4,000	4,000	..	4,000	..	4,000
26. Tippiyapalam project ..	..	..	..	..	..	..	..	..	..	..	..

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31--*cont.*

Works or systems.	Revenue (actual receipts).										
	Irrigation.			Navigation.	Plantation.	Miscellaneous.	Total.	Less refunds of revenue.	Gross revenue less refunds.	Deduct share of old irrigation revenue.	Total revenue due to improvements.
	Irrigation revenue.	Share of land revenue.	Total.								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
A. IRRIGATION WORKS— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS— <i>cont.</i>											
27. Basavannah channel ..	..	..	..	..	..	..	..	..	..	..	..
Total, A. Irrigation works—2. Unproductive works.	9,01,614	39,273	9,40,884	542	1,319	61,029	10,03,774	440	10,03,334	1,91,560	8,11,774
Total, A. Irrigation works ..	1,78,82,332	9,39,600	1,88,21,932	2,75,613	46,061	2,24,131	1,93,67,737	32,658	1,93,35,079	55,15,950	1,38,19,129
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.											
2. UNPRODUCTIVE WORKS.											
1. Ganjam-Gopalpur canal ..	..	..	..	..	7,075	13	7,088	..	7,088	..	7,088
2. Vedaranniyam canal ..	..	..	..	..	..	1,001	1,001	..	1,001	..	1,001
3. Buckingham canal ..	..	..	..	94,186	..	3,911	98,097	118	97,979	..	97,979
Total, B. Navigation, etc., works	..	..	..	94,186	7,075	4,925	1,06,186	118	1,06,068	..	1,06,068
—2 Unproductive works.	..	..	..	94,186	7,075	4,925	1,06,186	118	1,06,068	..	1,06,068
Total, B. Navigation, etc., works.	..	..	..	94,186	7,075	4,925	1,06,186	118	1,06,068	..	1,06,068
Total, Construction of Irrigation, etc., works.	1,78,82,332	9,39,600	1,88,21,932	3,69,799	53,136	2,29,056	1,94,73,923	32,776	1,94,41,147	55,15,950	1,39,25,197

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

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Works or systems.	Working expenses.									
	Revenue management.				Maintenance and Repairs.					
	Establishment.			Total revenue manage- ment.	Establishment.			Extensions and Improve- ments.	Maintenance and Repairs.	Tools and plant.
	Direction.	Execution.	Civil officers.		Direction.	Execution.	Total.			
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
A.—IRRIGATION WORKS — <i>cont.</i>			RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS.										
1. Cauvery delta system	..	..	41,156	41,156	54,927	2,14,708	2,74,635	1,41,753	6,26,064	4,696
2. Srivaikuntam anicut system. ..	..	..	7,955	7,955	4,239	16,954	21,193	8,866	45,069	520
3. Godavari delta system	..	..	1,98,121	1,98,121	63,481	2,53,926	3,17,407	96,195	8,23,627	12,204
4. Mehamattur anicut system	..	..	1,054	1,054	348	1,390	1,738	..	3,793	22
5. Thadepalli channel	..	..	3,322	3,322	1,090	4,359	5,449	652	20,010	520
6. Kalingarayan channel	..	..	2,296	2,296	784	3,136	3,920	58	14,584	368
7. Vriddhachalam anicut system. ..	..	..	1,664	1,664	747	2,987	3,734	2,191	6,395	50
8. Pelandorai anicut system	..	..	2,847	2,847	1,370	5,478	6,848	3,180	13,313	97
9. Chembrambakkam tank	..	..	2,048	2,048	580	2,320	2,900	472	18,533	53
10. Maradur anicut system	..	..	4,747	4,747	2,357	9,430	11,787	5,737	23,461	310
11. Pennar river canals system	..	..	33,939	33,939	7,752	31,008	38,760	11,129	83,982	913
12. Arkenkotta channel	..	..	997	997	284	1,137	1,421	84	4,842	124
13. Tirukkoyilur anicut system	..	..	4,045	4,045	1,637	6,549	8,186	2,522	18,492	123
14. Shatiatope anicut system	..	..	8,058	8,058	1,811	7,242	9,053	..	16,635	97
15. Palar anicut system	..	..	12,240	12,240	3,113	12,450	15,563	2,083	56,306	1,150
16. Cheyyar anicut system	..	..	3,836	3,836	1,931	7,723	9,654	2,655	35,019	948
17. Cumbum tank	..	..	— 523	— 526	112	446	558	140	2,188	9
18. Poiney anicut system	..	..	4,580	4,580	789	3,158	3,947	739	12,795	340
19. Periyar system	..	..	40,456	40,456	17,438	69,753	87,191	52,237	1,61,343	2,058
20. Kistna delta system	..	..	1,95,638	1,95,638	65,213	2,60,850	3,26,063	30,657	6,71,856	6,742
21. Nandyar channel system	..	..	627	627	728	2,912	3,640	3,853	5,353	88
22. Ganjam minor rivers system	..	..	3,220	3,220	4,142	16,568	20,710	1,703	71,950	1,235
23. Lower Coleroon anicut system. ..	..	..	22,385	22,385	12,869	51,478	64,347	52,347	1,16,371	987

C-1.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems.	Working expenses									
	Revenue management.				Maintenance and Repairs.					
	Establishment.			Total revenue management.	Establishment.			Extensions and Improvements.	Maintenance and Repairs.	Tools and plant.
	Direction.	Execution.	Civil officers.		Direction.	Execution.	Total.			
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
A.—IRRIGATION WORKS — <i>cont.</i>			RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS—<i>cont.</i>										
24. Divi pumping system	..	..	9,191	9,191	9,756	39,023	48,779	8,495	1,11,842	1,155
25. Toludur reservoir system ..	..	..	5,867	5,867	2,684	10,736	13,420	422	34,839	206
26. Polavaram Island project ..	..	..	5,312	5,312	478	1,911	2,389	..	4,481	60
27. Cauvery-Mettur reservoir project.	..	..	..	..	..	..	..	..	..	..
28. Kattalai scheme	..	..	— 843	— 843	4,468	17,870	22,338	3,962	54,212	560
Total, A. Irrigation works—1. Productive works.	..	..	6,14,232	6,14,232	2,65,128	10,60,502	13,25,630	4,35,137	20,55,355	35,635
2. UNPRODUCTIVE WORKS.										
1. Kurnool-Cuddapah canal ..	..	..	15,832	15,832	5,916	23,665	29,581	4,744	1,01,746	405
2. Barur tank	..	..	921	921	401	1,603	2,004	..	7,379	185
3. Vallur ancient system ..	..	..	174	174	96	382	478	..	1,700	7
4. Madras water-supply and irrigation system.	..	..	819	819	701	2,804	3,505	544	16,566	65
5. Rushikulya system	..	..	9,437	9,437	8,008	32,031	40,039	25,282	1,04,034	2,168
6. Muniyuru system	..	..	1,768	1,768	666	2,666	3,332	6	7,372	71
7. Dondapad tank	..	..	82	82	7	27	34	..	..	..
8. Yerur tank	..	..	188	188	36	145	181	..	243	2
9. Sagileru system	..	..	27	27	244	976	1,220	266	6,011	24

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems.	Working expenses.									
	Revenue management.				Maintenance and Repairs.					
	Establishment.			Total, Revenue manage- ment.	Establishment.			Extensions and Improve- ments.	Mainte- nance and Repairs.	Tools and plant.
	Direction.	Execution.	Civil officers.		Direction.	Execution.	Total.			
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
A. IRRIGATION WORKS—<i>cont.</i>			RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS—<i>cont.</i>										
10. Atmakur tank	..	..	149	149	22	88	110	..	..	..
11. Jangameshwarapuram tank ..	..	..	41	41	8	33	41	..	..	..
12. Anamasamudram-Beraperu tank.	..	..	99	99	2	7	9	..	..	..
13. Hajipuram tank	..	..	144	144	102	409	511	798	505	13
14. Ponnalur tank	..	..	271	271	98	393	491	..	1,201	11
16. Markapur tank	..	..	243	243	91	365	456	..	1,694	6
16. Nagavalli river system ..	..	..	3,611	3,611	1,348	5,390	6,738	2,175	15,676	299
17. Venkatapuram tank	..	..	39	39	16	65	81	..	316	1
18. Bhavanasi tank	..	..	260	260	120	481	601	479	1,219	16
19. Yellanur tank	..	..	185	185	32	128	160	..	200	1
20. Kocheruvu tank	..	..	1	1	6	25	31	..	175	1
21. Panjapatti reservoir	..	..	7	7	83	332	415	735	396	11
22. Siddapur tank	..	..	9	9	35	141	176	..	660	2
23. Nagavaram anicut and supply channel.	..	..	96	96	4	17	21	..	..	..
24. Mopad reservoir system ..	..	..	1,906	1,906	772	3,088	3,860	562	10,037	102
25. Kaniyapalayam anicut ..	..	..	..	..	235	938	1,173	..	4,995	126
26. Tippiyapalem project ..	..	..	..	..	..	..	..	..	..	..

C-I.—Statement Showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems	Working expenses.									
	Revenue management.				Maintenance and Repairs.					
	Establishment.			Total, Revenue manage- ment.	Establishment.			Exten- sions and Improve- ments.	Mainte- nance and Repairs.	Tools and plant.
	Direction.	Execution.	Civil officers.		Direction.	Execution.	Total.			
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
A. IRRIGATION WORKS— <i>cont.</i>			RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS— <i>cont.</i>										
27. Basavannah channel	..	..	..	..	..	..	..	..	..	..
Total. A. Irrigation Works—2. Unproductive Works.	..	..	36,259	36,259	19,049	76,199	95,248	35,591	2,82,125	3,516
Total, A. Irrigation works .	..	..	6,50,491	6,50,491	2,84,177	11,86,701	14,20,878	4,70,728	33,37,480	39,151
B. NAVIGATION, EMBANK- MENT AND DRAINAGE WORKS.										
2. UNPRODUCTIVE WORKS.										
1. Ganjam-Gopalpur canal ..	..	..	..	..	6	25	31	..	120	2
2. Vedaranniyam canal	..	..	..	..	72	286	358	..	1,096	6
3. Buckingham canal	..	..	..	..	11,026	44,105	55,131	3,947	2,48,279	1,290
Total, B. Navigation, etc., Works —2. Unproductive Works.	..	..	..	..	11,104	44,416	55,520	3,947	2,49,495	1,298
Total, B. Navigation, etc., Works.	..	..	..	..	11,104	44,416	55,520	3,947	2,49,495	1,298
Total, Construction of Irrigation, etc., Works.	..	..	6,50,491	6,50,491	2,95,281	11,81,117	14,76,398	4,74,675	35,86,975	40,449

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems.	Working expenses— <i>cont.</i>									
	Maintenance and Repairs— <i>cont.</i>		Indirect charges.	Grand total of working expenses.	Deduct old maintenance charges.			Total working expenses on improvements.	Net revenue.	
	Deduct recoveries on revenue account.	Total cost of maintenance.			Direct charges.	Indirect charges.	Total.		Total.	Due to improvements.
	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
A. IRRIGATION WORKS — <i>cont.</i>		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS.										
1. Cauvery delta system	..	10,50,153	9,171	11,00,480	1,40,773	1,056	1,41,829	9,58,651	31,38,153	— 1,20,018
2. Srivaikuntam anicut system ..	..	75,648	728	84,331	7,637	55	7,692	76,639	1,58,839	87,531
3. Godavari delta system	..	12,49,433	9,461	14,57,015	..	..	..	14,57,015	28,78,818	27,54,818
4. Mehamattur anicut system ..	..	5,553	38	6,645	847	6	853	5,792	18,597	15,450
5. Thadepalli channel	..	25,631	207	30,160	4,476	36	4,512	25,648	1,13,634	42,146
6. Kalingarayan channel	..	18,930	147	21,373	5,007	40	5,047	16,323	1,11,738	31,785
7. Vriddhachalam anicut system.	..	12,370	86	14,120	..	..	..	14,120	28,063	19,563
8. Pelandorai anicut system ..	..	23,438	135	26,450	157	1	158	26,292	34,655	31,823
9. Chembrambakkam tank	..	16,958	140	19,146	6,424	54	6,478	12,668	38,057	28,535
10. Marudur anicut system	..	44,295	322	49,364	6,455	47	6,502	42,862	1,02,657	54,159
11. Pennar river canals system ..	..	1,34,784	951	1,69,674	39,297	297	39,594	1,30,080	7,89,640	5,73,234
12. Arkenkota channel	..	6,471	49	7,517	1,120	9	1,129	6,388	31,746	13,875
13. Tirukkoyilur anicut system ..	..	29,323	210	33,578	6,572	49	6,621	26,957	1,08,367	54,988
14. Sthiatope anicut system	..	25,785	163	34,009	2,189	16	2,205	31,804	1,48,036	1,30,241
15. Palar anicut system	..	75,102	668	88,010	3,873	31	3,904	84,106	2,84,181	1,63,085
16. Cheyyar anicut system	..	48,276	377	52,489	4,021	32	4,053	48,436	65,967	31,020
17. Cumbum tank	..	2,895	23	2,392	946	8	954	1,438	17,089	— 11,957
18. Poiney anicut system	..	17,821	135	22,536	3,916	31	3,947	18,589	1,07,312	73,259
19. Periyar system	..	3,02,829	2,168	3,45,453	35,571	259	35,830	3,09,623	7,33,782	5,65,616
20. Kistna delta system	..	10,35,318	8,643	12,39,549	..	..	..	12,39,599	30,00,776	29,29,776
21. Nandiyar channel system	..	12,934	92	13,653	4,403	32	4,435	9,218	16,265	3,700
22. Ganjam minor rivers system ..	..	95,598	737	99,555	5,813	47	5,960	93,595	60,075	— 28,955
23. Lower Coleroon anicut system.	..	2,34,052	1,687	2,58,124	9,701	73	9,774	2,48,350	8,52,974	2,07,748

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems.	Working expenses— <i>cont.</i>									
	Maintenance and Repairs— <i>cont.</i>		Indirect charges.	Grand total of working expenses.	Deduct old maintenance charges.			Total working expenses on improvements.	Net revenue.	
	Deduct recoveries on revenue account.	Total cost of main-tenance.			Direct charges.	Indirect charges.	Total.		Total.	Due to improve-ments.
	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
A. IRRIGATION WORKS— <i>cont.</i>		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS— <i>cont.</i>										
24. Divi pumping system	..	1,70,271	1,257	1,80,719	16,141	122	16,263	1,64,456	1,00,090	96,053
25. Toludur reservoir project	..	48,887	353	55,107	..	..	..	55,107	73,289	62,699
26. Polavaram Island project	..	6,930	45	12,287	..	..	..	12,287	94,283	94,283
27. Cauvery-Mettur project	..	..	..	..	..	..	..	..	..	..
28. Kattalai scheme	..	81,072	582	80,811	..	..	..	80,811	1,60,051	— 93,949
Total, A. Irrigation works—1. Pro-ductive works.	..	48,51,757	38,608	55,04,597	3,05,439	2,301	3,07,740	51,96,857	1,28,27,148	78,10,498
2. UNPRODUCTIVE WORKS.										
1. Kurnool-Cuddapah canal	..	1,36,476	1,065	1,53,373	3,569	30	3,599	1,49,774	2,09,968	1,77,695
2. Barar tank	..	9,568	74	10,563	..	..	..	10,563	14,661	10,161
3. Valluru anicut	..	2,185	17	2,376	1,555	13	1,568	808	6,336	2,904
4. Madras water-supply and irrigation system.	..	20,680	171	21,670	4,537	38	4,575	17,095	46,674	40,249
5. Rushikulya system	..	1,71,523	1,293	1,82,253	7,092	56	7,148	1,75,105	78,247	18,395
6. Muniyeru system	..	10,781	74	12,623	294	2	296	12,327	26,017	23,813
7. Dondapad tank	..	34	..	66	..	..	..	66	580	580
8. Yerur tank	..	426	2	616	..	..	..	616	3,579	3,145
9. Sagileru system	..	7,521	63	7,611	2,610	22	2,632	4,979	10,768	— 4,400

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

Works or systems.	Working expenses— <i>cont.</i>									
	Maintenance and Repairs— <i>cont.</i>		Indirect charges.	Grand total of working expenses.	Deduct old maintenance charges.			Total working expenses on improvements.	Net revenue.	
	Deduct recoveries on revenue account.	Total cost of maintenance.			Direct charges.	Indirect charges.	Total.		Total.	Due to improvements.
	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)
A. IRRIGATION WORKS—<i>cont.</i>		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS—<i>cont.</i>										
10. Atmakur tank	..	110	..	259	..	..	..	259	2,715	2,715
11. Jangamaheswarapuram tank.	..	41	..	82	..	..	..	82	1,243	743
12. Anamasamudram-Beraperu tank.	..	9	..	108	848	6	854	— 746	5,465	2,719
13. Hajipuram tank	..	1,827	13	1,984	..	..	..	1,984	1,227	1,227
14. Ponnalur tank	..	1,703	12	1,986	..	..	..	1,986	3,438	3,438
15. Markapur tank	..	2,156	16	2,415	289	2	291	2,124	4,568	2,729
16. Nagavalli river system ..	..	24,888	179	28,678	3,674	29	3,703	24,975	97,313	63,616
17. Venkatapuram tank	..	398	3	440	..	..	..	440	505	341
18. Bhavanasi tank	..	2,315	17	2,592	..	..	..	2,592	2,648	2,648
19. Yellanur tank	..	361	2	548	..	..	..	548	3,652	3,652
20. Kocheruvu tank	..	207	2	210	..	..	..	210	793	187
21. Panjapatti reservoir	..	1,557	11	1,575	..	..	..	1,575	— 752	— 752
22. Siddapur tank	..	838	7	854	..	..	..	854	— 658	— 658
23. Nagavaram anicut and supply channel.	..	21	..	117	..	..	..	117	4,066	1,810
24. Mopad reservoir system ..	..	14,561	106	16,573	..	..	..	16,573	26,728	26,295
25. Kanniyampalayam anicut ..	..	6,294	50	6,344	..	..	..	6,344	— 2,344	2,344
26. Thippayypalem project ..	..	..	..	..	..	..	..	..	..	..

C-I.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as 'Productive' and 'Unproductive') for which Capital and Revenue Accounts are kept in the Madras Presidency for the year ending 1930-31—*cont.*

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Works or systems.	Working expenses— <i>cont.</i>									
	Maintenance and Repairs— <i>cont.</i>		Indirect charges.	Grand total of working expenses.	Deduct old maintenance charges.			Total working expenses on improvements.	Net revenue.	
	Deduct recoveries on revenue account.	Total cost of main-tenance.			Direct charges.	Indirect charges.	Total.		Total.	Due to improve-ments.
		RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
A. IRRIGATION WORKS— <i>cont.</i>										
2. UNPRODUCTIVE WORKS— <i>cont.</i>										
27. Basavannah channel ..	..	..	..	..	..	..	..	..	..	..
Total, A. Irrigation works—2. Un-productive works.	..	4,16,480	3,177	4,55,916	24,468	198	24,666	4,31,250	5,47,418	3,80,524
Total, A. Irrigation works ..	..	52,68,237	41,785	59,60,513	3,29,907	2,499	3,32,406	56,28,107	1,33,74,666	81,91,022
B. NAVIGATION, EMBANK-MENT AND DRAINAGE WORKS.										
2. UNPRODUCTIVE WORKS.										
1. Ganjam-Gopalpur canal ..	..	153	1	154	..	..	..	154	6,934	6,934
2. Vedaranniyam canal ..	..	1,460	11	1,471	..	..	..	1,471	— 470	— 470
3. Buckingham canal ..	..	3,08,647	2,522	3,11,169	..	..	..	3,11,169	— 2,13,190	— 2,13,190
Total, B. Navigation, works, etc.—	..	3,10,260	2,534	3,12,794	..	..	..	3,12,794	— 2,06,726	— 2,06,726
2. Unproductive works.										
Total, B. Navigation, etc., works..	.	3,10,260	2,534	3,12,794	..	..	..	3,12,794	— 2,06,726	— 2,06,726
Total, Construction of Irrigation, etc., works.	..	55,78,497	44,319	62,73,307	3,29,907	2,499	3,32,406	59,40,901	1,31,67,840	79,84,296

**C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works
for, and up to, the end of 1930-31.**

13 Number of works.	Name of works. (2)	General financial results to end of 1930-31.								
		Mileage in operation.		Estimated cost of construction (direct and indirect).	Date of completion of work.	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accum- ulated arrears of interest.	Accumulated surplus revenues.	Total sum- at-charge [column (7) + column (8)].
		Main canals and branches.	Distribu- taries.							
(1)	(2)	(3)	(4)	(5)	(6) (a)	(6) (b)	(7)	(8)	(9)	(10)
	A. IRRIGATION WORKS.	MILES.	MILES.	RS.	DATE.	DATE.	RS.	RS.	RS.	RS.
	1. PRODUCTIVE WORKS.									
1	Cauvery delta system ..	1,258 $\frac{1}{2}$	3,205	76,30,096	..	..	73,69,537	..	4,31,14,545	73,69,537
2	Srivaikuntam anicut system.	28	46	17,75,063	1870-71	..	17,75,063	..	5,58,277	17,75,063
3	Godavari delta system ..	511 $\frac{3}{8}$	1,995 $\frac{1}{2}$	1,79,53,323	1846-47	1877-78	1,76,66,024	..	11,74,25,290	1,76,66,024
4	Mehamattur anicut system.	15	9 $\frac{1}{4}$	84,543	..	..	75,381	..	2,85,435	75,381
5	Thadapalli channel ..	83	..	1,77,446	..	..	1,77,446	..	14,79,997	1,77,446
6	Kalingarayan channel ..	61	..	1,80,486	..	..	1,80,486	..	5,52,050	1,80,486
7	Vridhachalam anicut system.	33	16	86,685	..	..	86,685	..	5,77,453	86,685
8	Pelandorai anicut system.	39	25	6,92,074	1836-37	..	6,92,074	4,81,339	..	11,73,413
9	Chembrambakkam tank ..	10 $\frac{1}{8}$	1 $\frac{5}{8}$	7,64,143	..	..	7,64,143	..	4,17,056	7,64,143
10	Marudur anicut system ..	29	7 $\frac{1}{4}$	60,122	..	..	60,122	..	36,23,478	60,122
11	Pennar river canals sys- tem.	30 $\frac{3}{4}$	477	68,31,814	1860-61	1860-61	67,75,577	..	85,78,520	67,75,577
12	Arkenkota channel ..	24	..	1,44,445	..	..	1,44,445	..	40,851	1,44,445
13	Tirukkoyilur anicut system.	137	28 $\frac{1}{4}$	3,99,190	1861-62	..	3,99,190	..	7,52,147	3,99,190
14	Shatiatope anicut system.	41	149	10,76,228	1847-48	..	10,77,716	..	40,85,020	10,77,716
15	Palar anicut system ..	156	139	24,66,186	..	..	24,66,806	3,25,399	..	27,91,205
16	Cheyar anicut system ..	61	120	5,34,547	1852-53	..	5,36,415	..	3,41,994	5,36,415
17	Cumbum tank system ..	..	23 $\frac{3}{4}$	86,373	..	..	86,373	..	20,812	86,373
18	Poincy anicut system ..	104	78	3,03,918	1855-56	..	3,03,918	..	13,21,313	3,03,918

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1930-31—cont.

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(1) Number of works.	Name of works. (2)	General financial results to end of 1930-31—cont.								
		Mileage in operation.		Estimated cost of construction (direct and indirect). (5)	Date of completion of work. (6) (a)	Date when system first came into operation. (6) (b)	Total capital outlay (direct and indirect). (7)	Accumulated arrears of interest. (8)	Accumulated surplus revenues. (9)	Total sum-at-charge [column (7) + column (8)]. (10)
		Main canals and branches. (3)	Distributaries. (4)							
	A. IRRIGATION WORKS—cont.	MILES.	MILES.	RS.	DATE.	DATE.	RS.	RS.	RS.	RS.
	1. PRODUCTIVE WORKS—cont.									
19	Periyar system	145	106	1,09,17,413	31-3-1897	1896-97	1,08,03,556	..	15,30,142	1,08,03,556
20	Kistna delta system ..	349	2,185½	1,95,38,043	1855-56	1876-77	1,95,08,359	..	8,90,76,705	1,93,08,359
21	Nandyar channel system.	31	..	65,715	1897-98	1895-96	65,715	42,634	..	1,08,399
22	Ganjam minor rivers system.	119	225	2,87,210	..	..	2,87,210	..	9,08,241	2,87,210
23	Lower Coleroon anicut system.	383	620	32,64,415	1848-49	..	32,42,403	..	1,27,17,958	32,42,403
24	Divi pumping system ..	50	120¼	26,60,700	31-10-1913	1917-18	26,50,880	3,47,512	..	29,98,392
25	Toludur reservoir project.	31¼	39½	25,86,680	31-10-1925	1924-25	25,86,680	9,37,715	..	35,24,395
26	Polavaram island project.	..	46¼	18,21,657	In progress.	1929-30	15,44,455	1,06,975	..	16,51,430
27	Cauvery-Mettur Project..	..	..	7,37,08,000		..	4,42,49,706	55,47,380	..	4,97,97,086
28	Kattalai scheme	18¼	..	14,99,064		1929-30	11,78,577	3,44,876	..	15,23,453
	Total, A. Irrigation Works—1. Productive Works.	3,749¼	9,663¼	15,75,95,879	..	..	12,65,53,942	81,33,880	28,74,02,284	13,46,87,622
	2. UNPRODUCTIVE WORKS.									
1	Kurnool-Cuddapah canal.	417½	294½	2,32,87,114	1882-83	1882-83	2,33,87,114	3,66,12,358	..	5,99,99,472
2	Barur tank	11	26	4,43,113	1887-88	1887-88	4,43,113	3,80,437	..	8,23,550
3	Vallur anicut	5½	8	76,282	..	..	76,282	18,250	..	94,532

NOTE.— In the case of certain items, no entries have been made in columns 6 (a) and 6 (b) as the required information is not available in this office.

**C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works
for, and up to, the end of 1930-31—*cont.***

(1) Number of works.	Name of works. (2)	General financial results to end of 1930-31— <i>cont.</i>								
		Mileage in operation.		Estimated cost of construction (direct and indirect).	Date of completion of work.	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Total sum- at-charge [column (7) + column (8)].
		Main canals and branches.	Distribu- taries.							
(3)	(4)	(5)	(6) (a)	(6) (b)	(7)	(8)	(9)	(10)		
	A. IRRIGATION WORKS—<i>cont.</i>	MILES.	MILES.	RS.	DATE.	DATE.	RS.	RS.		RS.
	2. UNPRODUCTIVE WORKS —<i>cont.</i>									
4	Madras water-supply and irrigation system.	11½	..	19,42,783	..	..	18,58,625	26,61,296	..	45,19,921
5	Rushikulya system ..	80	161	56,19,723	1891-92	1892-93	54,00,731	40,55,950	..	94,56,681
6	Muniyēru system ..	60½	6½	6,01,059	1901-02	1898-99	6,01,059	3,56,115	..	9,57,174
7	Dondapad tank	..	6½	1,40,004	31-3-1903	Do.	1,40,004	1,58,195	..	2,98,199
8	Yerur tank	..	..	63,353	31-3-1907	1912-13	63,353	31,523	..	94,876
9	Sagileru tank	12	..	4,64,727	Do.	1898-99	4,64,727	5,86,010	..	10,50,737
10	Atmakur tank	..	4½	1,23,379	31-8-1907	1912-13	1,23,379	78,674	..	2,00,053
11	Jangamaheswarapuram tank.	..	5½	71,664	31-3-1908	Do.	71,664	46,926	..	1,18,590
12	Anamasamudram-Beraperu tank.	..	2½	73,573	31-3-1910	1911-12	73,573	58,720	..	1,32,293
13	Hajipuram tank	..	4½	3,11,883	} 31-3-1911	1910-11 {	3,11,883	1,92,476	..	5,04,359
14	Ponnalur tank	..	7	2,18,649			2,18,649	1,78,493	..	3,97,142
15	Markapur tank	7½	..	1,29,340	Do.	1909-10	1,29,340	70,815	..	2,00,155
16	Nagavalli river system ..	64½	47½	17,29,441	31-12-1913	Do.	17,24,108	4,02,936	..	21,27,044
17	Venkatapuram tank	3½	..	3,84,921	31-3-1918	1921-22	3,84,921	2,44,240	..	6,29,161
18	Bhavanasi tank	6½	..	2,65,491	31-3-1919	Do.	2,65,491	1,51,987	..	4,17,478

**C-II — Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works
for, and up to, the end of 1930-31—cont.**

Number of works.)	Name of works. (2)	General financial results to end of 1930-31—cont.								
		Mileage in operation.		Estimated cost of construction (direct and indirect).	Date of completion of work.	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Total sum- at-charge [column (7) + column (8)].
		Main canals and branches.	Distribu- taries.							
		(8)	(4)	(5)	(6) (a)	(6) (b)	(7)	(8)	(9)	(10)
	A. IRRIGATION WORKS—cont.	MILES.	MILES.	RS.	DATE.	DATE.	RS.	RS.	RS.	RS.
	2. UNPRODUCTIVE WORKS —cont.									
19	Yellanur tank	..	3 $\frac{1}{2}$	2,69,707	31- 3-1919	1920-21	2,69,707	1,31,621	..	4,01,328
20	Kocheravu do.	..	1 $\frac{3}{4}$	1,35,734	Do.	Do.	1,35,734	99,578	..	2,35,312
21	Panchapathi reservoir ..	..	1 $\frac{1}{2}$	3,39,276	30- 6-1919	1924-25	3,39,276	1,83,728	..	5,23,004
22	Siddapur tank	6 $\frac{1}{2}$	9	8,04,486	31-10-1919	1921-22	8,04,486	4,72,982	..	12,77,468
23	Nagavaram anicut and supply channel.	2	..	1,09,890	31-12-1919	1920-21	1,09,890	48,098	..	1,57,988
24	Mopad reservoir system ..	16 $\frac{1}{2}$	84	22,89,697	30-4-1921	1921-22	22,89,697	12,70,234	..	35,59,931
25	Kaniyampalayam anicut..	10 $\frac{3}{4}$	..	1,21,694	31-3-1922	1924-25	1,21,694	81,655	..	2,03,349
26	Tippayapalem project ..	..	..	3,19,190	In progress		77,629	22,319	..	99,948
27	Basavannah channel ..	..	..	5,50,329			5,08,399	70,488	..	5,78,887
	Total, A. Irrigation Works—2. Un- productive Works.	716	664	4,09,86,502	..	..	4,03,94,528	4,86,64,104	..	8,90,58,632
	Total, A. Irrigation Works.	4,465 $\frac{1}{4}$	10,327 $\frac{3}{4}$	19,85,82,381	..	..	16,69,48,470	5,67,97,984	28,74,02,224	22,37,46,454

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1930-31—*cont.*

(1) Number of works.	(2) Name of works.	General financial results to end of 1930-31— <i>cont.</i>								
		Mileage in operation.		Estimated cost of construction (direct and indirect).	Date of completion of work.	Date when system first came into operation.	Total capital outlay (direct and indirect).	Accumulated arrears of interest.	Accumulated surplus revenues.	Total sum-at-charge [column (7) + column (8)].
		Main canals and branches.	Distributaries.							
(1)	(2)	(3)	(4)	(5)	6 (a)	6 (b)	(7)	(8)	(9)	(10)
	B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.	MILES.	MILES.	RS.			RS.	RS.	RS.	RS.
	2. UNPRODUCTIVE WORKS.									
1	Ganjam-Gopālpūr canal.	..	..	1,55,493	..	..	1,55,493	2,15,070	..	3,70,563
2	Vedaranniyam canal ..	34½	..	1,36,432	..	..	1,36,432	5,88,590	..	7,25,022
3	Buckingham canal ..	262	..	90,82,987	..	..	90,65,405	1,95,39,477	..	2,85,95,882
	Total, B. Navigation, etc., Works—2. Unproductive Works.	296½	..	93,74,912	..	..	93,57,330	2,03,34,137	..	2,96,91,467
	Total, Construction of Irrigation, etc., Works.	4,761¾	10,327¾	20,79,57,293	..	..	17,68,05,800	7,71,32,121	28,74,02,284	25,34,37,921

NOTE.—In the case of certain items, no entries have been made in columns 6 (a) and 6 (b) as the required information is not available in this office.

**C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works
for, and up to, the end of 1930-31—cont.**

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Number of works.	Name of works.	Financial results of the year 1930-31.									Percentage of working expenses to receipts [column (11) to column (12)]. (20)
		Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Percentage on sum-at-charge [column (10)].	Interest.	Net profit.	Net loss.	Area irrigated.	
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
	A. IRRIGATION WORKS.	RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	PER CENT.
	1. PRODUCTIVE WORKS.										
1	Cauvery delta system ..	8,38,633	9,58,651	— 1,20,018	— 1·63	— 1·63	2,92,200	..	4,12,218	1,98,547	114·31
2	Srivaikuntam anicut system.	1,64,170	76,639	87,531	4·93	4·93	56,813	30,718	..	23,241	46·68
3	Godavari delta system ..	42,11,833	14,57,015	27,54,818	15·59	15·59	5,67,767	21,87,051	..	836,199	34·59
4	Mahamattur anicut system.	21,242	5,792	15,450	20·50	20·50	2,495	12,955	..	4,026	27·27
5	Thadapalli channel ..	67,794	25,648	42,146	23·75	23·75	5,567	36,579	..	6,785	37·83
6	Kalingarayan channel ..	48,111	16,326	31,785	17·61	17·61	5,852	25,933	..	6,369	33·93
7	Vriddhachalam anicut system.	33,683	14,120	19,563	22·57	22·57	2,799	16,764	..	6,865	41·92
8	Pelandorai anicut system.	58,115	26,292	31,823	4·60	2·71	22,073	9,750	..	11,758	45·07
9	Chembrambakkam tank ..	41,203	12,668	28,535	3·73	3·73	21,914	6,621	..	3,887	30·75
10	Marudur anicut system ..	97,021	42,862	54,159	90·08	90·08	2,125	52,034	..	12,874	44·18
11	Pennar river canals system.	7,03,314	1,30,080	5,73,234	8·46	8·46	1,92,924	3,80,310	..	91,624	18·50
12	Arkenkota channel ..	20,263	6,388	13,875	9·61	9·61	4,681	9,194	..	2,489	31·53
13	Tirukkoyilur anicut system.	81,945	26,947	54,988	13·77	13·77	13,415	41,573	..	19,411	32·90
14	Shatiatope anicut system.	1,62,045	31,804	1,30,241	12·08	12·08	36,001	94,240	..	33,153	19·63
15	Palar anicut system ..	2,47,191	84,106	1,63,085	6·61	5·84	78,627	84,458	..	46,619	34·02
16	Cheyyar do. ..	79,456	48,436	31,020	5·78	5·78	19,333	11,687	..	19,287	60·96
17	Cumbum tank system ..	— 10,519	1,438	— 11,957	— 13·84	— 13·84	2,793	..	14,750	— 1,189	— 13·67

APPENDIX I

**C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works
for, and up to, the end of 1930-31—*cont.***

Number of works.	Name of works.	Financial results of the year 1930-31— <i>cont.</i>									
		Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Percentage on sum-at-charge [column (10)].	Interest.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts [column (11) to column (12)].
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	A. IRRIGATION WORKS—<i>cont.</i>	RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	PER CENT.
	1. PRODUCTIVE WORKS—<i>cont.</i>										
18	Poiney anicut system ..	91,848	18,589	73,259	24.10	24.10	11,023	62,236	..	15,796	20.24
19	Periyar system ..	8,75,239	3,09,623	5,65,616	5.24	5.24	3,49,684	2,15,932	..	95,035	35.38
20	Kistna delta system ..	41,69,375	12,39,599	29,29,776	15.17	15.17	6,64,268	22,65,508	..	7,39,830	29.73
21	Nandiyar channel system..	12,918	9,218	3,700	5.63	3.41	2,136	1,564	..	2,594	71.36
22	Ganjam minor river system.	64,630	93,595	— 28,965	— 10.08	— 10.08	9,565	..	38,530	19,075	144.83
23	Lower Coleroon anicut system.	4,56,098	2,48,350	2,07,748	6.41	6.41	1,31,669	76,079	..	75,647	54.45
24	Divi pumping system ..	2,60,509	1,64,456	96,053	3.62	3.20	1,00,086	..	4,032	30,989	63.13
25	Toludur reservoir project.	1,17,806	55,107	62,699	2.42	1.78	1,09,552	..	46,853	19,274	46.78
26	Polavaram island project.	1,05,570	12,287	94,283	6.10	5.71	81,547	12,736	..	10,987	11.53
27	Cauvery-Mettur project ..	..	..	..	..	..	21,10,391	..	21,10,391	..	..
28	Kattalai scheme ..	— 13,138	80,811	— 93,949	— 7.97	— 6.17	63,098	..	1,57,047	11,816	— 615.09
	Total, A. Irrigation Works—1. Productive Works.	1,30,07,355	51,96,857	78,10,498	6.17	5.80	49,60,398	28,50,100	..	23,42,988	39.95
	2. UNPRODUCTIVE WORKS.										
1	Kurnool-Cuddapah canal.	3,27,469	1,49,774	1,77,695	.76	0.30	7,84,643	..	6,06,948	76,166	45.74
2	Barur tank ..	20,724	10,563	10,161	2.29	1.23	13,945	..	3,784	3,670	50.97
3	Valluru anicut ..	3,712	808	2,904	3.81	3.07	2,700	204	..	1,253	21.77

C-11.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1930-31—cont.

Number of works.	Name of works.	Financial results of the year 1930-31—cont.									
		Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Percentage on sum-at-charge [column (10)].	Interest.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts [column (11) to column (12)].
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	A. IRRIGATION WORKS—cont.	RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	PER CENT.
	2. UNPRODUCTIVE WORKS—cont.										
4	Madras water-supply and irrigation system.	57,344	17,095	40,249	2.17	0.89	55,395	..	15,146	4,803	29.81
5	Rushikulya system ..	1,93,500	1,75,105	18,395	0.34	0.19	1,68,822	..	1,50,427	51,464	90.49
6	Muniyeru system ..	36,140	12,327	23,813	3.96	2.49	19,046	4,767	..	8,294	34.11
7	Dondapad tank ..	646	66	580	0.41	0.19	4,149	..	3,569	165	10.22
8	Yernar tank ..	3,761	616	3,145	4.96	3.31	2,053	1,092	..	1,438	16.38
9	Sagileru system ..	579	4,979	— 4,400	— 0.95	— 0.42	14,867	..	19,267	153	859.93
10	Atmakur tank ..	2,974	259	2,715	2.20	1.36	3,656	..	941	765	8.71
11	Jangamaheswarapuram tank.	825	82	743	1.04	0.63	2,039	..	1,296	305	9.94
12	Anamasamudram-Boraperu tank.	1,973	— 746	2,719	3.70	2.06	2,384	335	..	395	— 37.81
13	Hajipuram tank ..	3,211	1,984	1,227	0.39	0.24	9,270	..	8,043	782	61.79
14	Ponnalur tank ..	5,424	1,986	3,438	1.57	0.87	6,980	..	3,542	1,129	38.62
15	Markapur tank ..	4,553	2,124	2,729	2.11	1.36	4,305	..	1,576	1,528	43.77
16	Nagavulli river system ..	88,591	24,976	63,616	3.69	2.99	56,864	6,752	..	11,429	28.19
17	Venkatapuram tank ..	781	440	341	0.09	0.05	12,933	..	12,592	161	56.34

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1930-31—*cont.*

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Number of works.	Name of works.	Financial results of the year 1930-31—cont.									
		Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Percentage on sum-at-charge [column (10)].	Interest.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts [column (11) to column (12)].
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
	A. IRRIGATION WORKS—cont.	RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	PER CENT.
	2. UNPRODUCTIVE WORKS—cont.										
18	Bhavanasi tank ..	5,240	2,592	2,648	1.0	0.63	10,060	..	7,412	659	49.47
19	Yellamur do. ..	4,200	548	3,652	1.35	0.91	8,338	..	4,686	891	13.05
20	Kochoeruva tank ..	23	210	— 187	— 0.14	— 0.08	4,330	..	4,517	14	913.04
21	Panjapatti reservoir ..	823	1,575	— 752	— 0.22	— 0.14	12,532	..	13,284	37	191.37
22	Siddapur tank ..	186	854	— 668	— 0.08	— 0.05	26,391	..	27,059	..	469.14
23	Nagavaram anicut and supply channel.	1,927	117	1,810	1.65	1.15	3,568	..	1,758	351	6.07
24	Mopad reservoir system ..	42,868	16,573	26,295	1.15	0.74	84,468	..	58,173	5,747	38.66
25	Kaniyapalayam anicut ..	4,000	6,344	— 2,344	— 1.98	— 1.15	5,906	..	8,250	210	158.60
26	Tippayapalem project ..	..	..	..	..	..	3,798	..	3,798	..	..
27	Basavanna channel ..	..	..	..	..	..	24,957	..	24,957	..	..
	Total, A. Irrigation works—2. Unproductive works.	8,11,774	4,31,250	3,80,524	0.94	0.43	13,48,899	..	9,67,875	171,809	53.12
	Total, A. Irrigation works.	1,38,19,129	56,28,107	81,91,022	4.91	3.66	63,08,797	18,82,225	..	2,514,797	40.73

C-II.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works for, and up to, the end of 1930-31—*cont.*

Number of works.	Name of works.	Financial results of the year 1930-31— <i>cont.</i>									
		Gross receipts (direct and indirect).	Working expenses (direct and indirect).	Net revenue.	Percentage on capital outlay [column (7)].	Percentage on sum-at-charge [column (10)].	Interest.	Net profit.	Net loss.	Area irrigated.	Percentage of working expenses to receipts [column (11) to column (12)].
		(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
		RS.	RS.	RS.	PER CENT.	PER CENT.	RS.	RS.	RS.	ACS.	PER CENT.
	B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.										
	2. UNPRODUCTIVE WORKS.										
1	Ganjam-Gopalpur canal ..	7,088	154	6,934	4.46	1.87	4,758	2,176	..	..	2.17
2	Vedaranniyam canal ..	1,001	1,471	-- 470	0.34	0.06	4,412	..	4,882	..	146.96
3	Buckingham canal ..	97,979	3,11,169	-- 2,13,190	2.35	0.75	2,86,349	..	4,99,539	..	317.59
	Total, B. Navigation, etc., works—2. Unproductive works.	1,06,068	3,12,794	-- 2,06,726	2.21	0.70	2,95,519	..	5,02,245	..	294.90
	Total, Construction of Irrigation, etc., works.	1,39,25,197	59,40,991	79,84,296	4.53	3.15	66,04,316	13,79,980	..	2,514,797	42.66

C-III.—Demands and realizations during the year 1930-31 in the Madras Presidency.

Irrigation, Navigation, Embankment and Drainage Works (classed as Productive and Unproductive) for which Capital and Revenue Accounts are kept.

Works or systems.	Balance of demands unrealized at commencement of the year.	Demand for the year.	Total.	Deduct remissions including cash re- funds.	Net total.	Deduct amount unrealized at close of the year.	Actual total receipts of the year.	Deduct share due to old irrigation.	Net revenue due to improve- ments.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS.		RS.	RS.	RS.	RS.		RS.	RS.	RS.
1. PRODUCTIVE WORKS.									
1. Cauvery delta system	..	52,91,938	52,91,938	10,53,305	42,38,633	..	42,38,633	34,00,000	8,38,633
2. Sriveikuntam anicut system	..	2,44,916	2,44,916	1,746	2,43,170	..	2,43,170	79,000	1,64,170
3. Godavari delta do.	..	43,76,800	43,76,800	40,967	43,35,833	..	43,35,833	1,24,000	42,11,833
4. Mehamattur anicut do.	..	25,242	25,242	..	25,242	..	25,242	4,000	21,242
5. Thadapalli channel do.	..	1,43,794	1,43,794	..	1,43,794	..	1,43,794	76,000	67,794
6. Kalingarayan channel do.	..	1,33,334	1,33,334	223	1,33,111	..	1,33,111	85,000	48,111
7. Vriddhachalam anicut do.	..	42,262	42,262	79	42,183	..	42,183	8,500	33,683
8. Pelanderai do. do.	..	61,125	61,125	10	61,115	..	61,115	3,000	58,115
9. Chembrambakkam tank do.	..	57,327	57,327	124	57,203	..	57,203	16,000	41,203
10. Marudur anicut do.	..	2,12,444	2,12,444	423	2,12,021	..	2,12,021	1,15,000	97,021
11. Pennar river canals do.	..	9,64,989	9,64,989	5,675	9,59,314	..	9,59,314	2,56,000	7,03,314
12. Arkenkota channel do.	..	39,263	39,263	..	39,263	..	39,263	19,000	20,263
13. Tirukkōyilur anicut do.	..	1,41,979	1,41,979	34	1,41,945	..	1,41,945	60,000	81,945
14. Shatiatope do. do.	..	1,84,785	1,84,785	2,740	1,82,045	..	1,82,045	20,000	1,62,045
15. Palar do. do.	..	3,79,393	3,79,393	7,202	3,72,191	..	3,72,191	1,25,000	2,47,191
16. Chéyyar do. do.	..	1,22,318	1,22,318	3,862	1,18,456	..	1,18,456	39,000	79,456
17. Cumbum tank do.	..	35,299	35,299	15,818	19,481	..	19,481	30,000	— 10,519
18. Poiney anicut do.	..	1,30,434	1,30,434	586	1,29,848	..	1,29,848	38,000	91,848
19. Periyār project do.	..	11,13,151	11,13,151	33,912	10,79,239	..	10,79,239	2,04,000	8,75,239
20. Kistna delta do.	..	42,93,126	42,93,126	52,751	42,40,375	..	42,40,375	71,000	41,69,375
21. Nandiyar channel do.	..	30,478	30,478	560	29,918	..	29,918	17,000	12,918
22. Gaujūm minor rivers do.	..	1,60,717	1,60,717	1,087	1,59,630	..	1,59,630	95,000	64,630

C-III.—Demands and realizations during the year 1930-31 in the Madras Presidency—*cont.*

Irrigation, Navigation, Embankment and Drainage Works (classed as Productive and Unproductive) for which Capital and Revenue Accounts are kept—*cont.*

Works or systems.	Balance of demands unrealized at commencement of the year.	Demand for the year.	Total.	Deduct remissions including cash re-funds.	Net total.	Deduct amount unrealized at close of the year.	Actual total receipts of the year.	Deduct share due to old irrigation.	Net revenue due to improvements.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS—<i>cont.</i>		RS.	RS.	RS.	RS.		RS.	RS.	RS.
1. PRODUCTIVE WORKS—<i>cont.</i>									
23. Lower Coleroon anicut system	..	6,39,956	6,39,956	28,858	6,11,098	..	6,11,098	1,55,000	4,56,098
24. Divi Pumping system	..	2,88,881	2,88,881	8,072	2,80,809	..	2,80,809	20,300	2,60,509
25. Toludur reservoir system	..	1,28,396	1,28,396	..	1,28,396	..	1,28,396	10,590	1,17,806
26. Polavaram island project	..	1,09,515	1,09,515	2,945	1,06,570	..	1,06,570	..	1,06,570
27. Cauvery-Mettur do.	..	..	..	..	..	..	..	..	..
28. Kattalai scheme	..	3,08,751	3,08,751	67,889	2,40,862	..	2,40,862	2,54,000	— 13,138
Total, A. Irrigation—									
1. Productive Works	..	1,96,60,613	1,96,60,613	13,28,868	1,83,31,745	..	1,83,31,745	53,24,390	1,30,07,355
2. UNPRODUCTIVE WORKS.									
1. Kurnool-Cuddapah canal	..	3,63,628	3,63,628	287	3,63,341	..	3,63,341	35,872	3,27,469
2. Barur tank	..	25,264	25,264	40	25,224	..	25,224	4,500	20,724
3. Vallur anicut	..	8,971	8,971	259	8,712	..	8,712	5,000	3,712
4. Madras water-supply and irrigation system.	..	68,817	68,817	473	68,344	..	68,344	11,000	57,344
5. Rushikulya system	..	2,62,079	2,62,079	1,579	2,60,500	..	2,60,500	67,000	1,93,500
6. Muniyeru do.	..	38,640	38,640	..	38,640	..	38,640	2,500	36,140
7. Pondapad tank	..	646	646	..	646	..	646	..	646
8. Yerur do.	..	4,233	4,233	47	4,186	..	4,186	425	3,761

C-III.—Demands and realizations during the year 1930-31 in the Madras Presidency—*cont.*

Irrigation, Navigation, Embankment and Drainage Works (classed as Productive and Unproductive) for which Capital and Revenue Accounts are kept—*cont.*

Works or systems.	Balance of demands unrealized at commencement of the year.	Demand for the year.	Total.	Deduct remissions including cash re-funds.	Net total.	Deduct amount unrealized at close of the year.	Actual total receipts of the year.	Deduct share due to old irrigation.	Net revenue due to improvements.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS—<i>cont.</i>		RS.	RS.	RS.	RS.		RS.	RS.	RS.
2. UNPRODUCTIVE WORKS—<i>cont.</i>									
9. Sagileru system	..	18,382	18,382	3	18,379	..	18,379	17,800	579
10. Atmakur tank	..	2,974	2,974	..	2,974	..	2,974	..	2,974
11. Jangamaheswarapuram tank	..	1,487	1,487	162	1,325	..	1,325	500	825
12. Anamasamudram-Beraperu tank	..	5,573	5,573	..	5,573	..	5,573	3,600	1,973
13. Hajipuram tank	..	3,362	3,362	151	3,211	..	3,211	..	3,211
14. Ponnalur do.	..	5,754	5,754	330	5,424	..	5,424	..	5,424
15. Markapur do.	..	6,983	6,983	..	6,983	..	6,983	2,130	4,853
16. Nagavalli river system	..	1,28,698	1,28,698	2,707	1,25,991	..	1,25,991	37,400	88,591
17. Venkatapuram tank	..	945	945	..	945	..	945	164	781
18. Bhavanasi do.	..	5,240	5,240	..	5,240	..	5,240	..	5,240
19. Yellanur do.	..	4,878	4,878	678	4,200	..	4,200	..	4,200
20. Kocheruvu do.	..	1,003	1,003	..	1,003	..	1,003	980	23
21. Panehsapatti reservoir	..	823	823	..	823	..	823	..	823
22. Siddapur do.	..	186	186	..	186	..	186	..	186
23. Nagavaram anicut and supply channel.	..	4,185	4,185	2	4,183	..	4,183	2,256	1,927
24. Mopad reservoir system	..	43,435	43,425	134	43,301	..	43,301	433	42,868
25. Kanniyampalayam anicut	..	4,000	4,000	..	4,000	..	4,000	..	4,000
26. Tippyayapalam project	..	..	..	..	..	..	..	..	..
27. Basavannah channel	..	..	..	..	..	..	..	..	..
Total, A. Irrigation Works—									
2. Unproductive Works ..	..	10,10,186	10,10,186	6,852	10,03,334	..	10,03,334	1,91,560	8,11,774
Total, A. Irrigation Works ..	..	2,06,70,799	2,06,70,799	13,35,720	1,93,35,079	..	1,93,35,079	55,15,950	1,88,19,129

C-III.—Demands and realizations during the year 1930-31 in the Madras Presidency—*cont.*

Irrigation, Navigation, Embankment and Drainage Works (classed as Productive and Unproductive) for which Capital and Revenue Accounts are kept—*cont.*

Works or systems.	Balance of demands unrealized at commencement of the year.	Demand for the year.	Total.	Deduct remissions including cash re- funds.	Net total.	Deduct amount unrealized at close of the year.	Actual total receipts of the year.	Deduct share due to old irrigation.	Net revenue due to improve- ments.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.		RS.	RS.	RS.	RS.		RS.	RS.	RS.
2. UNPRODUCTIVE WORKS.									
1. Ganjam-Gopalpur canal	..	7,088	7,088	..	7,088	..	7,088	..	7,088
2. Vedaranniyam canal	..	1,001	1,001	..	1,001	..	1,001	..	1,001
3. Buckingham canal	..	98,097	98,097	118	97,979	..	97,979	..	97,979
Total, B. Navigation, etc.—									
2. Unproductive works, ..	..	1,06,186	1,06,186	118	1,06,068	..	1,06,068	..	1,06,068
Total, B. Navigation, etc., works ..	..	1,06,186	1,06,186	118	1,06,068	..	1,06,068	..	1,06,068
Total, Construction of Irrigation, etc., works ..	..	2,07,76,985	2,07,76,985	13,35,838	1,94,41,147	..	1,94,41,147	55,15,950	1,39,25,197

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as Productive and Unproductive) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year.

Works or systems.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.							
		Direct revenue.					Indirect revenue and land revenue due to operations of canal.	Less refunds of revenue.	Grand Total.
		Owner's rate.	Plantation.	Navigation.	Miscellaneous.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A: IRRIGATION WORKS.									
1. PRODUCTIVE WORKS.									
1. Cauvery delta system ..	73,69,537	..	6,982	..	8,541	15,523	42,23,493	383	42,38,633
2. Srivaikuntam anicut system ..	17,75,063	..	749	..	4,317	5,066	2,38,104	..	2,43,170
3. Godavari delta system ..	1,76,66,024	..	10,201	1,54,732	51,250	2,16,183	41,21,384	1,734	43,35,833
4. Mehamattur anicut system ..	75,381	..	36	..	43	79	25,163	..	25,242
5. Thadapalli channel ..	1,77,446	..	1,244	..	107	1,351	1,42,443	..	1,43,794
6. Kalingarayan do. ..	1,80,486	..	2,072	..	125	2,197	1,30,914	..	1,33,111
7. Vriddhachalam anicut system ..	86,685	..	294	..	91	385	41,798	..	42,183
8. Pelandorai do. ..	6,92,074	..	744	..	423	1,167	59,948	..	61,115
9. Chembrambakam tank ..	7,64,143	..	..	..	238	238	56,965	..	57,203
10. Marudur anicut system ..	60,122	..	..	..	2,083	2,083	2,09,938	..	2,12,021
11. Pennar river canals system ..	67,75,577	..	..	94	5,737	5,831	9,53,483	..	9,59,314
12. Arkenkotta channel ..	1,44,445	..	287	..	33	320	38,943	..	39,263
13. Tirukkoyilur anicut system ..	3,99,190	..	811	..	240	1,051	1,40,894	..	1,41,945
14. Shatlatope do. ..	10,77,716	..	426	..	467	893	1,81,152	..	1,82,045
15. Palar do. ..	24,65,806	..	474	..	903	1,377	3,70,814	..	3,72,191
16. Cheyyar do. ..	5,36,415	..	296	..	1,013	1,309	1,17,148	1	1,18,456
17. Cumbum tank ..	86,373	..	..	..	..	..	19,481	..	19,481
18. Poiney anicut system ..	3,03,918	..	82	..	121	203	1,29,645	..	1,29,848
19. Periyar system ..	1,08,03,556	..	7,075	2,667	11,314	21,056	10,87,493	29,310	10,79,239
20. Kistna delta system ..	1,93,08,359	..	5,632	1,12,929	66,518	1,86,079	40,54,888	592	42,40,375
21. Nandiyar channel system ..	65,715	..	433	..	14	447	29,541	70	29,918
22. Ganjam minor river system ..	2,87,210	..	21	..	178	199	1,59,431	..	1,59,630

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as Productive and Unproductive) for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

Works or systems.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.							
		Direct revenue.					Indirect revenue and land revenue due to operations of canal.	Less refunds of revenue.	Grand Total.
		Owner's rate.	Plantation.	Navigation.	Miscellaneous.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS—<i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. PRODUCTIVE WORKS—<i>cont.</i>									
23. Lower Coleroon anicut system ..	32,42,403	..	3,878	4	4,587	8,469	6,02,698	69	6,11,098
24. Divi pumping system ..	26,50,880	..	..	3,645	3,213	6,858	2,73,984	33	2,80,809
25. Toludur reservoir project ..	25,86,680	..	3	..	468	471	1,27,925	..	1,28,396
26. Polavaram island project ..	15,44,455	..	53	..	277	330	1,06,240	..	1,06,570
27. Cauvery-Mettur project ..	4,42,49,706	..	..	..	..	..	..	..	..
28. Kattalai scheme ..	11,78,577	..	2,949	..	801	3,750	2,37,138	26	2,40,862
Total, A. Irrigation—									
1. Productive Works ..	12,65,53,942	..	44,742	2,75,071	1,63,102	4,82,915	1,78,81,048	32,218	1,83,31,745
2. UNPRODUCTIVE WORKS.									
1. Kurnool-Cuddapah canal ..	2,33,87,114	..	..	542	10,360	10,902	3,52,713	274	3,63,341
2. Barur tank system ..	4,43,113	..	748	..	955	1,703	23,521	..	25,224
3. Vallur anicut system ..	76,282	..	..	..	271	271	8,481	40	8,712
4. Madras water-supply and irrigation system.	18,58,625	..	..	..	40,961	40,961	27,383	..	68,344
5. Rushikulya system ..	54,00,731	..	571	..	2,144	2,715	2,57,785	..	2,60,500
6. Muniyeru system ..	6,01,059	..	..	..	785	785	37,855	..	38,640
7. Dondapad tank ..	1,40,004	..	..	..	..	..	646	..	646
8. Yerur tank ..	63,353	..	..	..	..	..	4,186	..	4,186
9. Sagileru system ..	4,64,727	..	..	..	45	45	18,334	..	18,379
10. Atmakur tank ..	1,23,379	..	..	..	..	..	2,974	..	2,974

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

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Works or systems.	Capital outlay (direct and indirect) to end of the year.	Revenue assessed during the year.							
		Direct revenue.					Indirect revenue and land revenue due to operations of canal.	Less refunds of revenue.	Grand Total.
		Own-er's rates.	Planta-tions.	Navi-gation.	Miscel-laneous.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS— <i>cont.</i>	RS.		RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS— <i>cont.</i>									
11. Jangamaheswarapuram tank ..	71,664	..	..	..	..	..	1,325	..	1,325
12. Anamasamudram-Beraperu tank ..	73,573	..	..	..	..	..	5,573	..	5,573
13. Hajipuram tank ..	3,11,883	..	..	..	329	329	2,882	..	3,211
14. Ponnalur tank ..	2,18,649	..	..	..	..	..	5,424	..	5,424
15. Markapur tank ..	1,29,340	..	..	..	..	..	6,983	..	6,983
16. Nagavalli river system ..	17,24,108	..	..	..	651	651	1,25,340	..	1,25,991
17. Venkatapuram tank ..	3,84,921	..	..	..	..	..	945	..	945
18. Bhavanasi do. ..	2,65,491	..	..	..	35	35	5,205	..	5,240
19. Yellanur do. ..	2,69,707	..	..	..	..	..	4,200	..	4,200
20. Kocheruvu do. ..	1,35,734	..	..	..	..	..	1,003	..	1,003
21. Panjapati reservoir ..	3,39,276	..	..	..	111	111	712	..	823
22. Siddapur tank ..	8,04,488	..	..	..	..	..	186	..	186
23. Nagavaram anicut and supply channel ..	1,09,890	..	..	..	..	..	4,183	..	4,183
24. Mopad reservoir system ..	22,89,697	..	..	..	382	382	43,045	126	43,301
25. Kaniyampalayam anicut ..	1,21,694	..	..	..	4,000	4,000	..	..	4,000
26. Tippyapalem project ..	77,629	..	..	..	..	..	..	..	..
27. Baeavannah channel ..	5,08,399	..	..	..	..	..	..	..	..
Total, A. Irrigation— 2. Unproductive Works ..	4,03,94,528	..	1,319	542	61,029	62,890	9,40,884	440	10,03,334
Total, A. Irrigation Works ..	16,69,48,470	..	46,061	2,75,613	2,24,131	5,46,805	1,88,21,932	32,658	1,93,35,079

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C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

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Works or systems. (1)	Capital outlay (direct and indirect) to end of the year. (2)	Revenue assessed during the year.							
		Direct revenue.					Indirect revenue and land revenue due to operations of canal. (8)	Less refunds of revenue. (9)	Grand Total. (10)
		Own- er's rates. (3)	Planta- tions. (4)	Navi- gation. (5)	Miscel- laneous. (6)	Total. (7)			
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
2. UNPRODUCTIVE WORKS.									
1. Ganjam-Gopalpur canal	1,55,493	..	7,075	..	13	7,088	..	..	7,088
2. Vedaranniyam do.	1,36,432	..	..	..	1,001	1,001	..	..	1,001
3. Buckingham do.	90,65,405	..	..	94,186	3,911	98,097	..	118	97,979
Total, B. Navigation, etc., Works— 2. Unproductive Works ..	93,57,330	..	7,075	94,186	4,925	1,06,185	..	118	1,06,068
Total, B. Navigation, etc., Works ..	93,57,330	..	7,075	94,186	4,925	1,06,186	..	118	1,06,068
Total, Construction of Irrigation, etc., Works.	17,63,05,800	..	53,136	3,69,799	2,29,056	6,51,991	1,88,21,932	32,776	1,94,41,147

APPENDIX I

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as: "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

Works or systems.	Revenue assessed during the year.					Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
			Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
A. IRRIGATION WORKS— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1. PRODUCTIVE WORKS— <i>cont.</i>								
1. Cauvery delta system	34,00,000	8,38,633	11,00,480	1,41,829	9,58,651	31,38,153	— 1,20,018	— 1.83
2. Srivaikuntam anicut system	79,000	1,64,170	84,331	7,692	76,639	1,58,839	87,531	4.93
3. Godavari delta system	1,24,000	42,11,833	14,57,015	..	14,57,015	28,78,818	27,54,818	15.59
4. Mehamattur anicut system	4,000	21,242	6,645	853	5,792	18,597	15,450	20.50
5. Thadapalli channel	76,000	67,794	30,160	4,512	25,648	1,13,634	42,146	23.75
6. Kalingarayan do.	85,000	48,111	21,373	5,047	16,326	1,11,738	31,785	17.61
7. Vriddhaachalam anicut system	8,500	33,683	14,120	..	14,120	28,063	19,563	22.57
8. Pelandorai do.	3,000	58,115	26,450	158	26,292	34,665	31,823	4.60
9. Chembarambakkam tank	16,000	41,203	19,146	6,478	12,668	38,057	28,535	3.73
10. Marudur anicut system	1,15,000	97,021	49,364	6,502	42,862	1,62,657	54,159	90.08
11. Pennar river canals system	2,56,000	7,03,314	1,69,674	39,594	1,30,080	7,89,640	5,73,234	8.46
12. Arkenkota channel	19,000	20,263	7,517	1,129	6,388	31,746	13,875	9.61
13. Tirukkoyilur anicut system	60,000	81,945	33,578	6,621	26,957	1,08,367	54,988	13.77
14. Satiatope do.	20,000	1,62,045	34,009	2,205	31,804	1,48,036	1,30,241	12.08
15. Palar do.	1,25,000	2,47,191	88,010	3,904	84,106	2,84,181	1,63,085	6.61
16. Cheyyar do.	39,000	79,456	52,489	4,053	48,436	65,967	31,020	5.78
17. Cumbum tank	30,000	— 10,519	2,392	954	1,438	17,089	— 11,957	— 13.84
18. Poiney anicut system	38,000	91,848	22,536	3,947	18,589	1,07,312	73,259	24.10
19. Periyar project system	2,04,000	8,75,239	3,45,453	35,830	3,09,623	7,33,786	5,65,616	5.24
20. Kistna delta system	71,000	41,69,375	12,39,599	..	12,39,599	30,00,776	29,29,776	15.17
21. Nandiyar channel system	17,000	12,918	13,653	4,435	9,218	16,265	3,700	5.63
22. Ganjam minor river system	95,000	64,630	99,555	5,960	93,595	60,075	— 28,965	— 10.08

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

Works or systems.	Revenue assessed during the year.					Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
			Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
A. IRRIGATION WORKS— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
1. PRODUCTIVE WORKS— <i>cont.</i>								
23. Lower Coleroon anicut system ..	1,55,000	4,56,098	2,58,124	9,774	2,48,350	3,52,974	2,07,748	6.41
24. Divi pumping system	20,300	2,60,509	1,80,719	16,263	1,64,456	1,00,090	96,053	3.62
25. Toludur reservoir project	10,590	1,17,806	55,107	..	55,107	73,289	62,699	2.42
26. Polavaram Island project	..	1,06,570	12,287	..	12,287	94,283	94,283	6.10
27. Cauvery-Mettur project	..	..	..	..	..	..	..	..
28. Kattalai scheme	2,54,000	-- 13,138	80,811	..	80,811	1,60,051	-- 93,949	-- 7.97
Total, A. Irrigation—								
1. Productive Works..	53,24,390	1,30,07,355	55,04,597	3,07,740	51,96,857	1,28,27,148	78,10,498	6.17
2. UNPRODUCTIVE WORKS.								
1. Kurnool-Cuddapah canal	35,872	3,27,469	1,53,373	3,599	1,49,774	2,09,968	1,77,695	0.76
2. Barur tank system	4,500	20,724	10,563	..	10,563	14,661	10,161	2.29
3. Vallura anicut system	5,000	3,712	2,376	1,568	808	6,336	2,904	3.81
4. Madras water-supply and irrigation system.	11,000	57,344	21,670	4,575	17,095	46,674	40,249	2.17
5. Rushikulya system	67,000	1,93,500	1,82,253	7,148	1,75,105	78,247	18,395	0.34
6. Muniyeru system	2,500	36,140	12,623	296	12,327	26,017	23,813	3.96
7. Dondapad tank	..	646	66	..	66	580	580	0.41
8. Yerur tank	425	3,761	616	..	616	3,570	3,145	4.96
9. Sagileru system	17,800	579	7,611	2,632	4,979	10,768	-- 4,400	-- 0.95
10. Atmakur tank	..	2,974	259	..	259	2,715	2,715	2.20

C.IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

Works or systems.	Revenue assessed during the year.					Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
			Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
A.—IRRIGATION WORKS— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
2. UNPRODUCTIVE WORKS— <i>cont.</i>								
11. Jangamaheswarapuram tank ..	500	825	82	..	82	1,243	743	1.04
12. Anamasamudram-Beraperu tank ..	3,600	1,973	108	854	— 746	5,465	2,719	3.70
13. Hajipuram tank	..	3,211	1,984	..	1,984	1,227	1,227	0.39
14. Ponnalur do.	..	5,424	1,986	..	1,986	3,438	3,438	1.57
15. Markapur do.	2,130	4,853	2,415	291	2,124	4,668	2,729	2.11
16. Nagavalli river system	37,400	88,591	28,678	3,703	24,975	97,313	63,816	3.69
17. Venkatapuram tank	164	781	440	..	440	505	341	0.09
18. Bhavanasi do.	..	5,240	2,592	..	2,592	2,648	2,648	1.00
19. Yellanur do.	..	4,200	548	..	548	3,652	3,652	1.35
20. Kocheruvu do.	980	23	210	..	210	793	— 187	— 0.14
21. Panjapatti reservoir	..	823	1,575	..	1,575	— 752	— 752	— 0.22
22. Siddapur tank	..	186	854	..	854	— 668	— 668	— 0.08
23. Nagavaram anicut and supply channel.	2,256	1,927	117	..	117	4,056	1,810	1.65
24. Mopad reservoir system	433	42,868	16,573	..	16,573	26,728	26,295	1.15
25. Kaniyampalayam anicut	..	4,000	6,344	..	6,344	— 2,344	— 2,344	— 1.93
26. Thippayapalem project	..	..	..	..	..	..	..	..
27. Basavannah channel	..	..	..	..	..	..	..	..
Total, A. Irrigation—								
2. Unproductive Works ..	1,91,560	8,11,774	4,55,916	24,666	4,31,250	5,47,418	3,80,524	0.94
Total, A. Irrigation Works ..	55,15,950	1,38,19,129	59,60,513	3,32,406	56,28,107	1,33,74,566	81,91,022	4.91

C-IV.—Statement showing the financial results of Irrigation, Navigation, Embankment and Drainage Works (classed as "Productive" and "Unproductive") for which Capital and Revenue Accounts are kept in the Madras Presidency for the year 1930-31 based on the assessment for the year—*cont.*

Works or systems.	Revenue assessed during the year.					Net revenue of the year.		Percentage on capital outlay to end of year (improvements only).
	Deduct share due to old irrigation.	Total revenue due to improvements.	Working expenses.			Total.	Due to improvements.	
			Total charges (direct and indirect).	Deduct old maintenance charges.	Total working expenses on improvements.			
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS— <i>cont.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	
2. UNPRODUCTIVE WORKS— <i>cont.</i>								
1. Ganjam-Gopalpur canal	..	7,088	154	..	154	6,934	6,934	4.46
2. Vedaranniyam do.	..	1,001	1,471	..	1,471	— 470	— 470	— 0.34
3. Buckingham do.	..	97,979	3,11,169	..	3,11,169	— 2,13,190	— 2,13,190	— 2.35
Total, B. Navigation, etc., Works— 2. Unproductive Works	..	1,06,068	3,12,794	..	3,12,794	— 2,06,726	— 2,06,726	-- 2.21
Total, B. Navigation, etc., Works ..	..	1,06,068	3,12,794	..	3,12,794	— 2,06,726	— 2,06,726	— 2.21
Total, Construction of Irrigation, etc., Works	55,15,950	1,39,25,197	62,73,307	3,32,406	59,40,901	1,31,67,840	79,84,296	4.53

D-I.—Statement of traffic on the principal navigable canals in the Madras Presidency during the year 1930-31.

(1)	Godavari canals.	Kistna canals.	Kurnool-Cuddapah canal.	Buckingham canal.	West Coast canals.	Dummagudem canal.	Vedaranniyam canal.	Total.
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Length of canal open for navigation.	507	382½	120	262	121	2	31½	1,426½
Receipts—								
Tolls Rs.	..	..	..	..	..	..	..	
Testing fees	31	197	..	138	..	..	..	
Annual licence fees	50,380	37,476	..	50,027	..	2,822	959	
Six weeks' licence fees	41,038	23,924	..	15,469	..	..	4	
Registration fees	..	..	..	..	..	..	..	
Wharfage do.	11,195	16,296	..	16,041	..	..	..	
Demurrage do.	..	168	..	428	..	..	..	
Raft fees	10,154	13	..	..	..	..	..	
Numbering fees	629	..	..	690	22,726	..	38	4,25,952
Fines	22	..	..	..	..	..	..	
Ground-rents	14,519	19,440	..	11,104	..	88	..	
Miscellaneous	..	..	..	3,887	..	..	..	
Refunds	66	276	..	118	..	..	..	
Government boats and steamers.	45,875	13,449	..	..	..	..	..	
Boat rent	2,894	13,966	240	275	..	..	..	
Total, Receipts	1,76,681	1,24,653	240	97,741	22,726	2,910	1,001	4,25,952
Maintenance charges, including special navigation establishment.	1,23,996	1,04,340	11,378	2,49,160	3,865	4,046	1,096	4,97,881
Net revenue	52,685	20,313	— 11,138	— 1,51,419	18,861	— 1,136	— 95	— 71,929
Total number of boats plying cargo ..	4,863	4,850	18	..	..	144	108	..
Do. passengers	4,892	838	6	2,340	..	5	..	18,064
Total tonnage, cargo boats	..	..	..	..	..	..	7,859	..
Do. passenger boats	8,43,674	7,69,858	4,243	1,14,709½	..	2,086	..	17,42,429½

D-I.—Statement of traffic on the principal navigable canals in the Madras Presidency during the year 1930-31—*cont.*

(1)	Godavari canals.	Kistna canals.	Kurnool-Cuddapah canal.	Buckingham canal.	West Coast canals.	Dummagudem canal.	Vedaranniyam canal.	Total.
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Ton mileage, up	47,00,091	46,79,258	2,15,693	43,65,920	..	894	59,282	..
Do. down	96,14,909	72,91,713	..	6,71,225	..	2,086	1,11,643	..
Total ..	1,43,15,000	1,19,70,971	2,15,693	50,37,146	..	2,980	1,70,925	3,17,12,715
Estimated value of cargoes, up Rs.	5,84,49,517	4,25,58,838	2,69,491	50,47,538	..	6,28,835	14,31,840 2,71,129	..
Do. down ..								
Total ..	5,84,49,517	4,25,58,838	2,69,491	50,47,538	..	6,28,835	17,02,969	10,86,57,188
Number of passengers	7,33,400	1,34,240	..	94,659	..	191	10	9,62,500
Rafts, tons, up	39,004	967 2,420	..	5	..	6,806	..	..
Do. down								
Total ..	39,004	3,387	..	5	..	6,806	..	49,202
Estimated value of rafts .. Rs.	39,06,218	3,14,912	..	825	..	17,82,918	..	60,04,873
Tollage on boats per ton per mile.	Rs. A. P.	..	..	..	..	Rs. A. P.	..	..
Tollage on rafts per	..	..	..	..	..	0 3 0	..	..
100 square feet { Timber	1 0 0	..	..	..	..	0 4 0	..	..
Bamboos	0 8 0	..	..	..	..	0 2 0	..	..

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31.

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Description.	Godavari canals.						Kistna canals.			
	Total, Government and private.				Private.		Total, Government and private.			
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Boat traffic.</i>				RS.		RS.				RS.
Cotton, raw and manufactured ..	528	513	1,041	12,30,931	1,041	12,30,931	220	111	331	4,54,544
Woollen goods ..	20	62	82	3,95,896	82	3,95,896		..	..	..
Dyes and tans ..	96	571	667	13,62,906	667	13,62,906	228	335	563	10,43,434
Rice and paddy ..	138,133	56,415	194,548	1,60,60,060	194,548	1,60,60,060	165,479	24,796	190,275	1,36,75,250
Other food-grains ..	9,551	20,435	29,896	35,87,520	29,896	35,87,520	7,636	11,929	19,565	23,47,800
Hides and skins ..	41	80	121	1,13,019	121	1,13,019	16	..	16	17,840
Liquors ..	87	311	398	6,19,880	398	6,19,880	3	..	3	6,180
Metals ..	444	821	1,265	4,14,160	1,265	4,14,160	405	105	510	1,52,175
Oils ..	2,282	4,144	6,426	36,24,264	6,426	36,24,264	400	1,213	1,613	9,09,732
Oil-seeds ..	4,295	12,962	17,257	33,99,629	17,257	33,99,629	12,069	16,640	28,709	56,55,673
Provisions ..	36,540	22,949	59,489	1,38,01,448	59,489	1,38,01,448	27,273	5,089	32,362	75,07,984
Salt ..	7,367	4,604	11,971	7,66,144	11,971	7,66,144	10,095	3,201	13,296	8,60,944
Spices ..	236	951	1,187	21,97,137	1,187	21,97,137	22	5	27	49,977
Sugar and jaggery ..	1,350	3,142	4,492	8,49,716	4,492	8,49,716	947	632	1,579	3,00,927
Tobacco ..	1,734	3,535	5,269	39,84,304	5,269	39,84,304	1,741	2,021	3,762	28,18,768
Building materials ..	135,384	283,938	419,322	6,54,899	..	..	30,478	355,434	385,912	15,15,593
Miscellaneous goods ..	22,981	21,595	44,576	25,76,334	44,576	25,76,334	13,056	25,568	38,624	22,42,516
Timber ..	4,032	3,827	7,859	13,36,030	7,859	13,36,030	5,176	1,430	6,606	11,23,020
Firewood ..	12,546	7,755	20,301	4,06,020	20,301	4,06,020	22,765	2,470	25,235	5,04,700
Bamboos ..	134	16,424	16,558	10,26,596	16,558	10,26,596	13,560	6,413	19,973	12,38,326
Coal and coke ..	681	244	905	39,820	905	39,820	50	426	476	20,944
Jute ..	4	40	44	12,804	44	12,804	6	415	421	1,22,611
Treasure ..	..	..	..	..	..	..	..	..	..	..
Kerosene oil ..	..	..	..	..	..	..	..	..	..	..
Cotton seeds ..	..	..	..	..	..	..	..	..	..	..

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—*cont.*

Description. (1)	Godavari canals.						Kistna canals.			
	Total, Government and private.				Private.		Total, Government and private.			
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.	
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Boat traffic—cont.</i>				RS.		RS.				RS.
Poles	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..
Total, Boat traffic ..	378,446	465,228	843,674	5,84,49,517	424,352	5,77,94,618	311,625	458,233	769,858	4,25,58,838
<i>Raft traffic.</i>										
Timber in logs	22	15,700	15,722	25,94,130	15,722	25,94,130	560	449	1,009	1,66,485
Squared timber	..	208	2 08	43,264	208	43,264	64	128	192	39,936
Sleepers, broad gauge	..	..	..	..	..	..	..	..	..	..
Do. metre gauge	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..
Poles	..	1	1	121	1	121	..	..	..	..
Firewood	..	8	8	128	8	128	149	152	301	4,816
Bamboos and reeds	..	23,065	23,065	12,68,575	23,065	12,68,575	194	1,691	1,885	1,03,675
Total, Raft traffic ..	22	38,982	39,004	39,06,218	39,004	39,06,218	967	2,420	3,387	3,14,912
Grand Total ..	378,468	504,210	882,678	6,23,55,735	463,356	6,17,00,836	312,592	460,653	773,245	4,28,73,750

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—cont.

Description.	Kistna canals—cont.		Kurnool-Cuddapah canal.					
	Private.		Total, Government and private.				Private.	
	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Tons.		Up.	Down.	Total.		Tons.	
	(12)		(14)	(15)	(16)		(18)	
<i>Boat traffic.</i>		rs.				rs.		rs.
Cotton, raw and manufactured	331	4,54,544	..	..	..	..	..	..
Woollen goods	..	..	..	..	..	..	..	..
Dyes and tans	563	10,43,434	..	..	..	..	..	..
Rice and paddy	190,275	1,36,75,250	89	..	89	6,230	89	6,230
Other food-grains	19,565	23,47,800	237	..	237	28,440	237	28,440
Hides and skins	16	17,840	..	..	..	..	..	..
Liquors	3	6,180	..	..	..	..	..	..
Metals	500	1,50,445	..	..	..	..	..	..
Oils	1,613	9,09,732	..	..	..	..	..	..
Oil-seeds	28,709	56,55,673	783	..	783	1,54,251	783	1,54,251
Provisions	32,362	75,07,984	..	..	..	..	..	..
Salt	13,296	8,50,944	..	..	..	..	..	..
Spices	27	49,977	..	..	..	..	..	..
Sugar and jaggery	1,579	3,00,927	..	..	..	..	..	..
Tobacco	3,762	28,18,768	..	..	..	..	..	..
Building materials	279,380	14,03,735	258	..	258	286	258	286
Miscellaneous goods	38,582	22,37,812	106	..	106	24,380	106	24,380
Timber	5,606	11,23,020	..	..	..	..	..	..
Firewood	25,235	5,04,700	2,758	..	2,758	55,160	2,758	55,160
Bamboos	19,973	12,38,326	12	..	12	744	12	744
Coal and coke	476	20,944	..	..	..	..	..	..
Jute	421	1,22,511	..	..	..	..	..	..
Treasure	..	..	..	..	..	..	..	..
Kerosene oil	..	..	..	..	..	..	..	..
Cotton seeds	..	..	..	..	..	..	..	..

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—*cont.*

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Description.	Kistna canals— <i>cont.</i>		Kurnool-Cuddapah canal— <i>cont.</i>					
	Private.		Total, Government and private:				Private.	
	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Tons.		Up.	Down.	Total.		Tons.	
	(12)		(14)	(15)	(16)		(18)	
<i>Boat traffic—cont.</i>		RS.				RS.		RS.
Poles	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..
Total, Boat traffic ..	663,274	4,24,40,546	4,243	..	4,243	2,69,491	4,243	2,69,491
<i>Raft traffic.</i>								
Timber in logs	1,009	1,66,485	..	..	..	..	..	..
Squared timber	192	39,933	..	..	..	..	..	..
Sleepers, broad gauge	..	..	..	..	..	..	..	..
Do. metre gauge	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..
Firewood	301	4,816	..	..	..	..	..	..
Bamboos and reeds	1,885	1,03,675	..	..	..	..	..	..
Total, Raft traffic ..	3,387	3,14,912	..	..	..	..	..	..
Grand Total ..	666,661	4,27,55,458	..	..	..	..	..	..

APPENDIX I

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—cont.

Description.	Buckingham canal.						West Coast canals.					
	Total, Government and private.				Private.		Total, Government and private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.				Up.	Down.	Total.			
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)
<i>Boat traffic.</i>				RS.		RS.						
Cotton, raw and manufactured ..	..	..	..	..	..	..	..	..	..	..	..	..
Woollen goods ..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans ..	..	..	..	..	..	..	..	..	..	..	..	..
Rice and paddy ..	12,387	526	12,913	12,73,010	12,918	12,73,010	..	..	..	..	..	..
Other food-grains ..	69	117	186	22,320	186	22,320	..	..	..	..	..	..
Hides and skins ..	11	..	11	7,665	11	7,665	..	..	..	..	..	..
Liquors ..	..	..	..	..	..	..	..	..	..	..	..	..
Metals ..	7	40	47	25,944	47	25,944	..	..	..	..	..	..
Oils ..	..	68	68	38,352	68	38,352	..	..	..	..	..	..
Oil-seeds ..	133	40	173	31,914	173	31,914	..	..	..	..	..	..
Provisions ..	2,440	1,418	3,858	8,95,056	3,858	8,95,056	..	..	..	..	..	..
Salt ..	8,973	145	9,118	5,83,552	9,118	5,83,552	..	..	..	..	..	..
Spices ..	..	..	..	..	..	..	..	..	..	..	..	..
Sugar and jaggery ..	8	..	8	1,512	8	1,512	..	..	..	..	..	..
Tobacco ..	58	403	461	3,09,512	461	3,09,512	..	..	..	..	..	..
Building materials ..	1,537	223	1,760	8,853	1,760	8,853	..	..	..	..	..	..
Miscellaneous goods ..	3,032	127	3,159	1,01,332	3,159	1,01,332	..	..	..	..	..	..
Timber ..	6	343½	349½	75,860	349½	75,860	..	..	..	..	..	..
Firewood ..	81,102	999	82,101	16,42,020	82,101	16,42,020	..	..	..	..	..	..
Bamboos ..	..	491½	491½	30,372	491½	30,372	..	..	..	..	..	..
Coal and coke ..	..	6	6	264	6	264	..	..	..	..	..	..
Jute ..	..	..	..	..	..	..	..	..	..	..	..	..
Treasure ..	..	..	..	..	..	..	..	..	..	..	..	..
Kerosene oil ..	..	..	..	..	..	..	..	..	..	..	..	..
Cotton seeds ..	..	..	..	..	..	..	..	..	..	..	..	..

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—*cont.*

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Description.	Buckingham canal— <i>cont.</i>						West Coast canals— <i>cont.</i>					
	Total, Government and private.				Private.		Total, Government and private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.	
	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)
<i>Boat traffic—cont.</i>				RS.		RS.						
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Total, Boat traffic ..	109,763	4,946½	114,709½	50,47,538	114,709½	50,47,538	..	..	..	..	..	..
<i>Raft traffic.</i>												
Timber in logs	..	5	5	825	5	825	..	..	..	..	..	..
Squared timber	..	..	..	..	..	..	..	..	..	..	..	..
Sleepers, broad gauge ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge ..	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos and reeds	..	..	..	..	..	..	..	..	..	..	..	..
Total, Raft traffic ..	..	5	5	825	5	825	..	..	..	..	..	..
Grand Total ..	109,763	4,951½	114,714½	50,48,363	114,714½	50,48,363	..	..	..	..	..	..

APPENDIX I

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—cont.

Description.	Dummagudem canal.						Vedaranniyam canal.					
	Total, Government and private.				Private.		Total, Government and private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.	
	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
<i>Boat traffic.</i>				RS.		RS.				RS.		RS.
Cotton, raw and manufactured ..	..	..	..	..	..	..	..	..	..	..	..	..
Woollen goods ..	..	..	..	..	..	..	..	..	..	..	..	..
Dyes and tans ..	..	18½	18½	20,683	18½	20,683	..	..	..	..	..	..
Rice and paddy ..	14½	..	14½	1,740	14½	1,740	20	362	382	26,740	382	26,740
Other food-grains ..	..	315½	315½	37,860	315½	37,860	616	..	616	73,920	616	73,920
Hides and skins ..	..	1½	1½	844	1½	844	..	..	..	..	..	..
Liquors ..	21	..	21	43,260	21	43,260	..	..	..	..	..	..
Metals ..	3½	..	3½	606	3½	606	..	2	2	2,254	2	2,254
Oils ..	32	..	32	18,048	32	18,048	..	..	..	..	..	..
Oil-seeds ..	..	312½	312½	61,562	312½	61,562	396	137	533	1,05,001	533	1,05,001
Provisions ..	28½	50½	79	18,328	79	18,328	233	31	264	61,248	264	61,248
Salt ..	498	..	498	31,872	498	31,872	..	588	588	37,632	588	37,632
Spices ..	..	..	..	..	..	..	603	2	605	11,19,855	605	11,19,855
Sugar and jaggery ..	27½	..	27½	5,353	27½	5,353	416	..	416	97,552	416	97,552
Tobacco ..	..	555½	555½	3,62,186	555½	3,62,186	..	125	125	81,500	125	81,500
Building materials ..	22½	..	22½	1,093	..	..	35	..	35	173	35	173
Miscellaneous goods ..	187	10	147	18,355	147	18,355	527	191	718	19,744	718	19,744
Timber ..	..	..	..	..	..	..	8	31	39	6,630	39	6,630
Firewood ..	..	..	..	..	..	..	..	3,536	3,536	70,720	3,536	70,720
Bamboos ..	..	..	..	..	..	..	..	..	..	..	..	..
Coal and coke ..	..	..	..	..	..	..	..	..	..	..	..	..
Jute ..	..	20	20	5,820	20	5,820	..	..	..	..	..	..
Treasure ..	..	..	..	..	..	..	..	..	..	..	..	..
Kerosene oil ..	..	..	..	..	..	..	..	..	..	..	..	..
Cotton seeds ..	..	..	..	..	..	..	..	..	..	..	..	..

D-II.—Description and quantities of goods, etc., carried on the principal canals in the Madras Presidency during the year 1930-31—*cont.*

Description.	Dummagudem canal— <i>cont.</i>						Vedāranniyam canal— <i>cont.</i>					
	Total, Government and private.				Private.		Total, Government and private.				Private.	
	Quantity, tons.			Value.	Quantity.	Value.	Quantity, tons.			Value.	Quantity.	Value.
	Up.	Down.	Total.		Tons.		Up.	Down.	Total.		Tons.	
	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
<i>Boat traffic—cont.</i>				RS.		RS.				RS.		RS.
Poles	..	..	..	..	..	..	..	..	..	..	..	..
Scantling	..	..	..	..	..	..	..	..	..	..	..	..
Total, Boat Traffic ..	784½	1,301½	2,086	6,28,835	2,064	6,27,742	2,854	5,005	7,859	17,02,969	7,859	17,02,969
<i>Raft traffic.</i>												
Timber in logs	..	3,838	3,838	6,33,270	3,838	6,33,270	..	..	..	..	..	..
Squared timber	..	1,973	1,973	4,10,384	1,973	4,10,384	..	..	..	..	..	..
Sleepers, broad gauge ..	..	..	..	..	..	..	..	..	..	..	..	..
Do. metre gauge	..	..	..	..	..	..	..	..	..	..	..	..
Scantlings	..	..	..	..	..	..	..	..	..	..	..	..
Poles	..	844	844	1,02,124	844	1,02,124	..	..	..	..	..	..
Firewood	..	..	..	..	..	..	..	..	..	..	..	..
Bamboos and reeds	..	151	151	8,305	151	8,305	..	..	..	..	..	..
Total, Raft traffic ..	..	6,806	6,806	11,54,083	6,806	11,54,083	..	..	..	..	..	..
Grand Total ..	784½	8,107½	8,892	17,82,918	8,870	17,81,825	..	..	..	..	..	..

E-1.--Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1930-31.

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Name of canal.	Area charged as irrigated in acres.						
	First crop.		Second crop.		Total.	Both seasons.	Percentage of double cropped area [columns (4) + (5)] on the first-crop area [columns (2) + (3)].
	Flow.	Lift.	Flow.	Lift.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>Productive.</i>	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	
Ganjam minor rivers system ..	64,792	1,991	2,108	1,444	70,335	152	5.32
Godavari delta system ..	787,691	11,659	187,101	5,898	992,349	12,194	24.14
Kistna do. ..	793,198	12,372	4,832	138	810,540	4,589	0.62
Divi pumping system ..	40,679	210	..	..	40,889	1	..
Penner river canals system ..	159,714	3,057	28,705	278	191,754	741	17.81
Arkenkota channel ..	4,637	156	425	11	5,229	16	9.10
Thadapalle do. ..	13,526	1,495	1,703	221	16,945	857	12.81
Kalingarayan do. ..	9,918	2,292	9,099	1,710	23,019	3,648	88.53
Palar anicut system ..	76,537	1,671	37,693	678	116,579	591	49.06
Chembrambakam tank ..	13,177	328	2,646	266	16,417	614	21.56
Poincy anicut system ..	22,673	585	10,416	172	33,846	158	45.52
Cheygar do. ..	21,477	895	13,226	279	35,877	172	60.37
Tirukkoyilur anicut system ..	26,257	1,003	8,014	247	35,521	360	30.30
Shatlatope do. ..	31,795	698	7,606	214	40,313	1,743	24.07
Mehamattur do. ..	4,490	52	467	7	5,016	152	10.44
Vridhdachalam do. ..	8,449	101	736	9	9,295	139	8.71
Toludur (Willingdon) reservoir ..	16,874	61	5,182	7	22,124	210	30.64
Lower Coleroon anicut system ..	107,952	1,263	11,095	267	120,577	634	10.40
Cauvery delta system ..	855,746	24,807	93,423	4,001	977,977	16,394	11.07
Nandyar channel system ..	6,035	687	1,874	248	8,844	800	31.57
Periyar system ..	131,470	139	44,814	312	176,735	3,099	34.29
Srivaikuntam anicut system ..	25,018	787	17,652	214	43,671	500	73.11
Marudur anicut system ..	17,322	192	12,915	55	30,484	584	74.06
Cumbum tank ..	5,360	82	879	10	6,331	182	16.34
Pelandurai anicut system ..	12,436	281	1,232	29	13,978	175	9.92
Kattalai south bank canal ..	34,000	1,900	11,223	803	47,926	4,989	33.50
Polavaram island project ..	10,904	75	3	5	10,987	..	0.07

E-I.—Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1930-31—*cont.*

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Name of canal.	Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	At head.		Utilized.		Discharge at head.		Utilized.		First crop.	Second crop.
	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.		
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<i>Productive.</i>										
Ganjam minor rivers system	..	..	..	..	..	..	..	..	..	..
Godavari delta system	7,513	4,102	3,264	1,607	104.80	45.60	241.40	116.40	154,088	..
Kistna do.	6,234	..	5,870	..	127.24	..	135.13	..	138,525	..
Divi pumping system	323	..	323	..	125.94	..	125.94	..	96,045	..
Pennér river canals system	..	..	..	..	..	..	..	..	..	..
Arkenkota channel	..	..	..	..	..	..	..	..	..	..
Thadapalli do.	..	..	..	..	..	..	..	..	..	..
Kalingarayan do.	..	..	..	..	..	..	..	..	..	..
Palar anicut system	..	..	..	..	..	..	..	..	..	..
Chembrambakam tank	..	..	..	..	..	..	..	..	..	..
Poincy anicut system	..	..	..	..	..	..	..	..	..	..
Cheygar do.	..	..	..	..	..	..	..	..	..	..
Tirukkōyilur anicut system	..	..	..	..	..	..	..	..	..	..
Shatlatope do.	..	..	..	..	..	..	..	..	..	..
Mehamattur do.	..	..	..	..	..	..	..	..	..	..
Vriddhachalam do.	..	..	..	..	..	..	..	..	..	..
Toludur (Willingdon) reservoir	..	..	..	..	..	..	..	..	..	..
Lower Coleroon anicut system	..	..	..	..	..	..	..	..	..	..
Cauvery delta system	16,795	6,564	16,795	6,564	50.95	14.23	50.95	14.23	259,440	789,170
Nandiyar channel system	..	..	..	..	..	..	..	..	..	..
Periyar system	..	..	..	..	..	..	..	..	..	..
Srivaikuntam anicut system	..	..	..	..	..	..	..	..	..	..
Marudur anicut system	..	..	..	..	..	..	..	..	..	..
Cumbum tank	..	..	..	..	..	..	..	..	..	..
Pelandorai anicut system	..	..	..	..	..	..	..	..	..	..
Kathali south bank canal	..	..	..	..	..	..	..	..	..	..
Polavaram island project	..	..	..	..	..	..	..	..	..	..

E-I.—Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1930-31—*cont.*

Name of canal.	Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	At head.		Utilized.		Discharge at head.		Utilized.		First crop.	Second crop.
	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.		
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<i>Unproductive.</i>										
Rushikulya system	..	..	..	..	..	..	..	..	..	..
Nagavalli river system ..	..	..	..	..	..	..	..	..	..	..
Muniyérú system	..	..	..	..	..	..	..	..	..	..
Jangamaheswarapuram tank	..	..	..	..	..	..	..	..	..	..
Atmakur tank	..	..	..	..	..	..	..	..	..	..
Bhayanasi tank	..	..	..	..	..	..	..	..	..	..
Dondapad tank	..	..	..	..	..	..	..	..	..	..
Mopad reservoir	..	..	..	..	..	..	..	..	..	..
Hajipuram tank	..	..	..	..	..	..	..	..	..	..
Ponnalúr tank	..	..	..	..	..	..	..	..	..	..
Anamasamudram Berapur tank	..	..	..	..	..	..	..	..	..	..
Yerur tank	..	..	..	..	..	..	..	..	..	..
Sagilleru system	..	..	..	..	..	..	..	..	..	..
Markapur tank	..	..	..	..	..	..	..	..	..	..
Yellanur tank	..	..	..	..	..	..	..	..	..	..
Kocheruvu tank	..	..	..	..	..	..	..	..	..	..
Siddapur tank	..	..	..	..	..	..	..	..	..	..
Nagavaram anicut and supply channel.	..	..	..	..	..	..	..	..	..	..
Venkatapuram tank	..	..	..	..	..	..	..	..	..	..
Kurnool-Cuddapah canal ..	..	..	..	..	..	..	..	..	..	..
Barur tank	..	..	..	..	..	..	..	..	..	..

E-I.—Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1930-31—*cont.*

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Name of canal.	Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	At head.		Utilized.		Discharge at head.		Utilized.		First crop.	Second crop.
	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.		
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<i>Productive.</i>										
Ganjām minor rivers system ..	..	..	..	..	..	..	..	..	..	..
Godāvari delta system ..	7,513	4,10½	3,264	1,607	104·80	45·60	241·40	116·40	154,088	..
Kistna do. ..	6,234	..	5,879	..	127·24	..	135·13	..	138,525	..
Divi pumping system ..	323	..	323	..	125·94	..	125·94	..	96,045	..
Pennér river canals system ..	..	..	..	..	..	..	..	..	..	..
Arkenkota channel ..	..	..	..	..	..	..	..	..	..	..
Thadapalli do. ..	..	..	..	..	..	..	..	..	..	..
Kalingarayan do. ..	..	..	..	..	..	..	..	..	..	..
Palar anicut system ..	..	..	..	..	..	..	..	..	..	..
Chembrambakam tank ..	..	..	..	..	..	..	..	..	..	..
Poincy anicut system ..	..	..	..	..	..	..	..	..	..	..
Cheyar do. ..	..	..	..	..	..	..	..	..	..	..
Tirukkōyilur anicut system ..	..	..	..	..	..	..	..	..	..	..
Shatiatope do. ..	..	..	..	..	..	..	..	..	..	..
Mehamattur do. ..	..	..	..	..	..	..	..	..	..	..
Vriddhaachalam do. ..	..	..	..	..	..	..	..	..	..	..
Toludur (Willingdon) reservoir ..	..	..	..	..	..	..	..	..	..	..
Lower Coleroon anicut system ..	..	..	..	..	..	..	..	..	..	..
Cauvery delta system ..	16,795	6,564	16,795	6,564	50·95	14·23	50·95	14·23	259,440	789,170
Nandyar channel system ..	..	..	..	..	..	..	..	..	..	..
Periyār system ..	..	..	..	..	..	..	..	..	..	..
Srivaikuntam anicut system ..	..	..	..	..	..	..	..	..	..	..
Marudur anicut system ..	..	..	..	..	..	..	..	..	..	..
Cumbam tank ..	..	..	..	..	..	..	..	..	..	..
Pelandorai anicut system ..	..	..	..	..	..	..	..	..	..	..
Kathali south bank canal ..	..	..	..	..	..	..	..	..	..	..
Polavaram island project ..	..	..	..	..	..	..	..	..	..	..

E-I.—Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1930-31—cont.

Name of canal.	Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	At head.		Utilized.		Discharge at head.		Utilized.			
	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<i>Unproductive.</i>										
Rushikulya system	..	..	..	..	..	..	..	..	..	..
Nagavalli river system ..	..	..	..	..	..	..	..	..	..	..
Muniyéro system	..	..	..	..	..	..	..	..	..	..
Jangamaheswarapuram tank	..	..	..	..	..	..	..	..	..	..
Atmakur tank	..	..	..	..	..	..	..	..	..	..
Bhavanasi tank	..	..	..	..	..	..	..	..	..	..
Dondapad tank	..	..	..	..	..	..	..	..	..	..
Mopad reservoir	..	..	..	..	..	..	..	..	..	..
Hajipuram tank	..	..	..	..	..	..	..	..	..	..
Ponnalúr tank	..	..	..	..	..	..	..	..	..	..
Anamasamudram Berapur tank	..	..	..	..	..	..	..	..	..	..
Yerur tank	..	..	..	..	..	..	..	..	..	..
Sagileru system	..	..	..	..	..	..	..	..	..	..
Markapur tank	..	..	..	..	..	..	..	..	..	..
Yellanur tank	..	..	..	..	..	..	..	..	..	..
Kocheruvu tank	..	..	..	..	..	..	..	..	..	..
Siddapur tank	..	..	..	..	..	..	..	..	..	..
Nagavaram anicut and supply channel.	..	..	..	..	..	..	..	..	..	..
Venkatapuram tank	..	..	..	..	..	..	..	..	..	..
Kurnool-Cuddapah canal ..	..	..	..	..	..	..	..	..	..	..
Barur tank	..	..	..	..	..	..	..	..	..	..

E-I.—Statement of areas irrigated under Irrigation Works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during the year 1930-31—*cont.*

Name of canal.	Average discharge, cubic feet per second.				Areas irrigated per cubic foot per second.				Cubic feet of water supplied at head for each acre of land irrigated during the year.	
	At head.		Utilized.		Discharge at head.		Utilized.		First crop.	Second crop.
	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.	First crop.	Second crop.		
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Unproductive—cont.										
Madras water-supply and irrigation system.	..	..	..	.	..	..	..	..	..	..
Kaniyampalayam anicut	..	..	..	..	..	..	..	..	..	..
Panjapatti reservoir	..	..	..	..	..	..	..	..	..	..
Vallur anicut system	..	..	..	..	..	..	..	..	..	..

In the case of the Godavari and Kistna delta the period of irrigation of first crop has been taken to be 187 days and 204 days respectively though it varied in each delta as shown below during the year.

Godavari delta, Eastern section	17th June to 20th December.
Do. Central section	31st May to 30th November.
Do. Western section	1st June to 1st December.
Kistna delta, Eastern section	8th June to 31st December.
Do. Western section	21st June to 31st December.

The area entered in column (7), both seasons, are for lands bearing such crops as betel and sugarcane which requires irrigation for the greater part of the year. This is included in the areas of first and second crops.

E-II.—Statement showing the incidence of working expenses and assessed water revenue on irrigation works classed as Productive and Unproductive for which Capital and Revenue Accounts are kept in the Madras Presidency during 1930-31.

E-II.—Statement showing the incidence of working expenses and assessed for which Capital and Revenue Accounts are

Name of canal.	Average discharge of the year at canal head in cubic feet per second.	Water assessed, 1930-1931.					Gross and assessed revenue from all sources.
		Occupiers.	Owners.	Total, direct.	Indirect.	Total of direct and indirect.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<i>Productive.</i>				RS.	RS.	RS.	RS.
Ganjam minor river system ..	..	..	..	1,51,631	7,800	1,59,431	1,59,630
Godavari delta system ..	5,808	..	..	38,97,112	2,24,272	41,21,384	43,85,833
Kistna do. ..	4,985	..	..	38,66,574	1,88,314	40,54,888	42,40,375
Divi pumping system ..	..	..	..	1,86,779	87,205	2,73,984	2,80,809
Penner river canals system ..	..	..	..	8,86,546	66,937	9,53,483	9,59,314
Arkenkota channel ..	246.81	..	..	38,515	428	38,943	39,263
Tadapalli channel ..	414.61	..	..	1,39,514	2,929	1,42,443	1,43,794
Kalingarayan channel ..	875.79	..	..	1,30,431	483	1,30,914	1,33,111
Palar anicut system ..	..	..	..	3,53,972	16,842	3,70,814	3,72,191
Ohembrambakkam tank ..	..	..	..	56,008	957	56,965	57,203
Poincy anicut system ..	..	..	..	1,24,183	5,462	1,29,645	1,29,848
Cheyyar do. ..	..	..	..	1,12,413	4,735	1,17,148	1,18,456
Tirukkoyilur anicut system ..	..	..	..	1,37,525	3,369	1,40,894	1,41,945
Shatintope do. ..	..	..	..	1,64,121	17,031	1,81,152	1,82,045
Mehamattur do. ..	..	..	..	24,979	184	25,163	25,242
Vriddhachalam do. ..	..	..	..	41,459	339	41,798	42,183
Toludur (Wellington) reservoir ..	..	..	..	1,27,477	448	1,27,925	1,28,396
Lower Coleroon anicut system. ..	..	..	..	5,51,183	51,515	6,02,698	6,11,098
Cauvery delta system ..	6,84 1	..	..	40,99,509	1,23,984	42,23,493	42,38,633
Nandiyar channel system ..	..	..	..	29,465	76	29,541	29,918
Periyar system ..	..	..	..	9,92,807	94,686	10,87,493	10,79,239
Srivaikuntam anicut system ..	..	..	..	2,36,614	1,490	2,38,104	2,43,170
Marudur anicut system ..	..	..	..	2,09,659	279	2,09,938	2,12,021
Cumbum tank ..	..	..	..	19,020	461	19,481	19,481
Pelandurai anicut system ..	..	..	..	59,862	86	59,948	61,115
Kattalai scheme (south bank canal).	..	..	..	2,37,123	15	2,37,138	2,40,862
Polavaram Island project ..	..	..	..	1,06,240	..	1,06,240	1,06,570
<i>Unproductive.</i>							
Rushikulya system ..	..	..	..	2,51,783	6,002	2,57,785	2,60,500
Nagavalli river system ..	..	..	..	1,04,126	21,214	1,25,340	1,25,991
Maniyeru system ..	..	..	..	37,795	60	37,855	38,640
Jangamaheswarapuram tank ..	..	..	..	1,325	..	1,325	1,325
Atmakur tank ..	..	..	..	2,974	..	2,974	2,974
Bhavanasi tank ..	..	..	..	5,205	..	5,205	5,240
Dondapad tank ..	..	..	..	636	10	646	646
Mopad reservoir ..	..	..	..	37,908	5,137	43,045	43,301
Hajipuram tank ..	..	..	..	2,867	15	2,882	3,211
Ponnalur tank ..	..	..	..	5,424	..	5,424	5,424
Anamasamudram-Berapur tank. ..	..	..	..	5,572	1	5,573	5,573
Yerur tank ..	..	..	..	4,100	86	4,186	4,186
Sagileru system ..	..	..	..	18,308	26	18,334	18,379
Markapur tank ..	..	..	..	6,982	1	6,983	6,983
Yellalur tank ..	..	..	..	3,096	1,104	4,200	4,200
Kocheruvu tank ..	..	..	..	994	9	1,003	1,003
Siddapur tank ..	..	..	..	186	..	186	186
Nagavaram anicut and supply channel.	..	..	..	4,037	146	4,183	4,183
Venkatapuram tank ..	..	..	..	922	23	945	945
Kurnool-Cuddapah canal ..	..	..	..	3,50,163	2,550	3,52,713	3,63,341
Barur tank ..	..	..	..	22,763	758	23,521	25,224
Madras water-supply and irrigation system.	..	..	..	26,921	462	27,383	68,344
Kaniyampalayam anicut ..	..	..	..	117	595	712	4,000
Panjapatti reservoir ..	..	..	..	7,407	1,074	8,481	823
Vallur anicut system ..	..	..	..	..	..	..	8,712

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water revenue on irrigation works classed as Productive and Unproductive kept in the Madras Presidency during 1930-31.

Working expenses, direct and indirect. (9)	Area charged as irrigated during the year 1930-31, first and second crops. (10)	Working expenses.			Occupier's rate.		Total water-rate, direct and indirect.	
		Per cent on gross rev- enue. (11)	Per acre irri- gated. (12)	Per cubic foot per second of discharge at canal head. (13)	Per acre irri- gated. (14)	Per cubic foot per second of discharge at canal head. (15)	Per acre irri- gated. (16)	Per cubic foot per second of discharge at canal head. (17)
RS.	ACS.							
99,555	70,335	62.37	1.42	..	..	..	2.27	..
14,57,015	9,92,349	33.60	1.47	250.86	..	..	4.15	746.53
12,39,599	8,10,540	29.23	1.52	298.67	..	..	5.00	850.63
1,80,719	40,889	64.36	4.42	..	..	..	6.70	..
1,69,674	1,91,754	17.69	0.88	..	..	..	4.97	..
7,517	5,229	19.15	1.44	30.46	..	..	7.45	159.08
30,160	16,945	20.97	1.78	72.74	..	..	8.41	346.82
21,373	23,019	16.06	0.93	24.40	..	..	5.69	151.99
88,010	1,16,569	23.65	0.76	..	..	..	3.18	..
19,146	16,417	33.47	1.17	..	..	..	3.47	..
22,536	33,846	17.36	0.67	..	..	..	3.83	..
52,489	35,877	44.31	1.46	..	..	..	3.27	..
33,578	35,521	23.66	0.95	..	..	..	3.97	..
34,009	40,313	18.68	0.84	..	..	..	4.49	..
6,645	5,016	26.33	1.32	..	..	..	5.02	..
14,120	9,295	33.47	1.52	..	..	..	4.50	..
55,107	22,124	42.92	2.49	..	..	..	5.78	..
2,58,124	1,20,577	42.24	2.14	..	..	..	5.00	..
11,00,480	9,77,977	25.96	1.13	260.87	..	..	4.32	619.59
13,653	8,844	45.63	1.54	..	..	..	3.34	..
3,45,453	1,76,735	32.01	1.95	..	..	..	6.15	..
84,331	43,671	34.68	1.93	..	..	..	5.45	..
49,364	30,484	23.28	1.62	..	..	..	6.89	..
2,392	6,331	12.28	0.38	..	..	..	3.08	..
26,450	13,978	43.28	1.89	..	..	..	4.29	..
80,811	47,926	33.55	1.69	..	..	..	4.95	..
12,287	10,987	11.53	1.12	..	..	..	9.67	..
1,82,253	1,09,564	69.96	1.66	..	..	..	2.35	..
28,678	27,229	22.76	1.05	..	..	..	4.60	..
12,623	8,894	32.67	1.42	..	..	..	4.26	..
82	462	6.19	1.77	..	..	..	2.87	..
259	765	8.71	0.34	..	..	..	3.89	..
2,592	659	49.47	3.93	..	..	..	7.90	..
66	165	10.22	0.40	..	..	..	3.92	..
16,573	5,747	38.27	2.88	..	..	..	7.49	..
1,984	782	61.79	2.54	..	..	..	3.69	..
1,986	1,129	36.62	1.76	..	..	..	4.80	..
108	1,375	1.94	0.08	..	..	..	4.05	..
616	1,520	14.72	0.41	..	..	..	2.75	..
7,611	4,753	41.41	1.60	..	..	..	3.86	..
2,415	2,028	34.58	1.19	..	..	..	3.44	..
548	891	13.05	0.62	..	..	..	4.71	..
210	246	20.94	0.85	..	..	..	4.08	..
854	..	459.14	..	..	..	..	..	..
117	1,038	2.80	0.11	..	..	..	4.03	..
440	215	46.56	2.05	..	..	..	4.40	..
1,53,373	84,271	42.21	1.82	..	..	..	4.19	..
10,563	5,420	41.88	1.95	..	..	..	4.34	..
21,670	11,231	31.71	1.93	..	..	..	2.44	..
6,344	210	158.6	30.21	..	..	..	19.24	..
1,575	37	191.37	42.57	..	..	..	1.60	..
2,376	5,293	27.27	0.45	..	..	..	..	..

E-III—Statement showing the area actually irrigated by flow and lift under Productive and Unproductive Works and the value of crops raised thereon for fasli 1340 (1930-31).

Districts.	Names of systems.	Area actually irrigated.						Value of crops.	
		First crop.		Second crop.		Total.	Both seasons.	Paddy.	
		Flow.	Lift.	Flow.	Lift.			Area irrigated.	Estimated value.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	(i) <i>Productive Works.</i>	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.
Ganjam	Ganjam minor rivers system.	63,579	1,991	2,158	1,444	69,172	152	65,481	39,52,908
East Godavari	Polavaram Island project.	10,601	75	3	5	10,684	..	10,592	5,86,432
Do.	Godavari delta system ..	351,177	3,869	77,898	2,264	438,208	7,906	407,715	2,58,35,216
West Godavari	Do. ..	409,630	7,788	108,758	3,634	529,810	4,238	503,765	2,79,14,575
Kistna	Do. ..	673	2	6	..	681	..	680	15,406
	Total ..	764,480	11,659	186,662	5,898	968,699	12,194	912,160	5,37,65,197
West Godavari	Kistna delta system ..	39,975	133	52	2	40,162	7	40,065	23,40,669
Kistna	Do. ..	417,169	8,583	2,561	63	428,376	1,548	422,574	2,51,07,643
Guntur	Do. ..	322,577	3,656	2,218	73	328,524	3,034	322,546	2,12,95,621
	Total ..	779,721	12,372	4,831	138	797,062	4,589	785,185	4,87,43,933
Kistna	Divi pumping system ..	40,344	210	..	..	40,554	1	40,125	18,35,826
Nellore	Penner river canals system.	155,049	3,057	28,704	278	187,088	741	181,080	96,19,269
Coimbatore	Arakkankottai channel ..	4,624	156	425	11	5,216	16	5,099	4,96,111
Do.	Tadepalli channel ..	13,453	1,495	1,703	221	16,872	857	15,419	14,26,196
Do.	Kalingarayan channel ..	9,809	2,292	9,099	1,710	22,910	3,648	16,612	15,95,108
North Arcot	Palar ancient system ..	50,088	1,334	26,434	572	78,428	557	68,740	37,40,230
Chingleput	Do. ..	20,094	337	10,176	106	30,713	34	29,237	14,64,250
	Total ..	70,182	1,671	36,610	678	109,141	591	97,977	52,04,480

Do.	..	..	Chembrambakkam tank ..	12,512	328	2,615	266	15,721	614	13,996	674,950
North Arcot	..	..	Poincy anicut system ..	19,583	556	9,579	150	29,868	151	24,144	14,65,036
Chittoor	..	..	Do. ..	1,425	29	837	22	2,313	7	1,527	1,08,224
			Total ..	21,008	585	10,416	172	32,181	158	25,671	15,73,260
North Arcot	..	..	Cheyyar anicut system ..	19,329	895	13,021	279	33,524	172	32,059	17,80,839
Chingleput	..	..	Do. ..	386	..	205	..	591	..	565	25,594
			Total ..	19,715	895	13,226	279	34,115	172	32,624	18,06,433
South Arcot	..	..	Tirukkōyilār anicut system.	25,302	1,003	8,014	247	34,566	360	27,754	16,90,404
Do.	..	..	Shatiatepe anicut system.	29,753	698	7,606	214	38,271	1,743	36,120	21,76,555
Do.	..	..	Mehamattur anicut system.	4,439	52	467	7	4,965	152	4,564	3,02,085
Do.	..	..	Vriddhachalam anicut system.	8,276	101	736	9	9,122	139	8,222	5,53,874
Do.	..	..	Toludur project ..	16,766	61	5,182	7	22,016	210	16,977	11,09,093
Do.	..	..	Pelandorai anicut system.	12,143	281	1,232	29	13,685	175	12,534	8,65,142
Do.	..	..	Lower Coleroon anicut system.	82,720	666	8,643	102	92,131	433	90,459	62,54,244
Tanjore	..	..	Do. Total ..	22,017	597	2,383	165	25,162	251	23,839	11,81,648
				104,737	1,263	11,026	267	117,293	684	114,298	74,35,892
Tanjore	..	..	Cauvery delta system ..	781,097	22,448	75,119	2,730	881,394	14,161	840,670	3,74,10,129
Trichinopoly	..	..	Do. ..	39,984	2,359	17,098	1,271	60,712	2,233	56,736	51,03,650
			Total ..	821,081	24,807	92,217	4,001	942,106	16,394	897,406	4,25,13,779
Trichinopoly	..	..	Nandiyar channel system.	5,791	687	1,874	248	8,600	800	6,768	4,69,554
Do.	..	..	South Bank Canal ..	32,862	1,900	11,050	803	46,615	4,989	40,056	22,19,121
Madura	..	..	Periyar system ..	127,943	139	44,791	312	173,185	3,099	164,919	1,36,1,066
Ramnad	..	..	Do. ..	93	..	..	..	93	..	93	8,243
			Total ..	128,036	139	44,791	312	173,278	3,099	165,012	1,36,25,309
Tinnevelly	..	..	Srivaikuntam anicut system.	23,446	787	17,652	214	42,099	560	39,797	21,32,838
Do.	..	..	Marudur anicut system ..	16,850	192	12,915	55	30,012	584	28,447	18,31,165
Karnool	..	..	Cumbum tank ..	4,503	82	879	10	5,474	182	1,668	77,059
			Total of Productive Works.	3,199,062	68,839	512,093	17,523	3,797,617	53,804	3,601,634	20,82,81,973

E-III—Statement showing the area actually irrigated by flow and lift under Productive and Unproductive Works and the value of crops raised thereon for fasli 1340 (1930-31)—*cont.*

Districts.	Names of systems.	Area actually irrigated.						Value of crops.	
		First crop.		Second crop.		Total.	Both seasons.	Paddy.	
		Flow.	Lift.	Flow.	Lift.			Area irrigated.	Estimated value.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	(ii) <i>Unproductive Works.</i>	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.
Ganjam	Rushikulya system ..	104,789	2,168	687	353	107,997	320	106,796	47,26,063
Vizagapatam	Nagavalli river project ..	24,991	211	689	26	25,917	42	25,104	15,17,758
Kistna	Muniyeru project ..	8,743	43	..	..	8,786	..	8,720	5,42,276
Guntur	Jangamaheswarapuram tank.	247	..	7	..	254	..	238	16,553
Do.	Atmakur tank	354	2	..	..	356	..	318	13,292
Do.	Dondapad tank	159	..	6	..	165	..	132	8,807
Do.	Bhavanasi tank	408	3	248	..	659	1	601	49,347
Nellore	Mopad project	3,530	20	2,176	3	5,729	674	4,612	1,92,849
Do.	Hajipuram tank	554	..	40	..	594	..	80	4,020
Do.	Ponnalur tank	622	111	318	..	1,051	2	810	45,493
Do.	Anamasamudram Bira-peru tank.	971	1	360	..	1,332	..	1,319	55,936
Do.	Yerur tank	1,263	..	..	..	1,263	..	1,263	53,574

Cuddapah	..	..	Sagileru system ..	4,078	52	466	29	4,625	115	2,896	1,96,488
Do.	..	..	Chepad channel ..	8,795	17	714	..	9,526	100	7,670	4,93,801
Do.	..	..	Nagavaram anicut and supply channel.	593	10	405	4	1,012	42	720	38,284
Kurnool	..	..	Markapur tank ..	1,354	16	622	3	1,995	..	1,283	77,776
Do.	..	..	Kocheruvu tank ..	135	..	67	..	202	28	63	3,793
Do.	..	..	Siddapur tank ..	..	..	..	..	..	..	..	..
Do.	..	..	Venkatapuram tank ..	193	..	8	..	201	..	201	12,123
Do.	..	..	Kurnool-Cuddapah cana ¹ .	35,382	128	5,976	7	41,493	682	18,392	12,00,328
Cuddapah	..	..	Do.	27,384	415	4,416	50	32,265	1,916	19,571	10,94,727
			Total ..	62,766	543	10,392	57	73,758	2,598	37,963	22,95,055
Anantapur	..	..	Yellanur tank ..	618	..	27	..	645	..	204	10,789
Salem	..	..	Barur tank ..	3,413	10	1,743	4	5,170	310	4,321	2,34,114
Coimbatore	..	..	Kanniyampalaisyam anicut.	208	..	2	..	210	..	207	14,602
Chingleput	..	..	Madras water-supply and irrigation system.	6,597	391	3,474	222	10,684	198	9,694	5,26,167
Do.	..	..	Vallur anicut system ..	4,212	356	110	56	4,734	74	4,416	2,30,615
Trichinopoly	..	..	Panjapatti reservoir project.	35	..	2	..	27	..	2	83
			Total of Unproductive Works.	239,628	3,954	22,563	757	266,902	4,504	219,633	1,13,59,678
			Grand Total of Productive and Unproductive Works.	3,438,690	72,793	534,656	18,280	4,064,419	58,308	3,821,267	21,96,41,651

NOTE.—(1) The area under 'both seasons' is included under first and second crops.

(2) The areas in columns (3) to (7) include extent under 'withered crops' but exclude 'waste charged'.

(3) The area of withered crops = 9,340 acres.

(4) Prepared by the Board of Revenue—Vide B.P. No. 95 dated 29th October 1931.

E-III.—Statement showing the area actually irrigated by flow and lift under Productive and Unproductive Works and the value of crops raised thereon for fasli 1340 (1930-31)—*cont.*

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Districts.	Names of systems.	Value of crops— <i>cont.</i>					
		Ragi.		Other crops.		Total.	
		Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.
		(11)	(12)	(13)	(14)	(15)	(16)
	(i) <i>Productive Works—cont</i>	ACS.	RS.	ACS.	RS.	ACS.	RS.
Ganjam	Ganjam minor rivers system.	2,054	68,470	1,637	16,376	69,172	40,37,754
East Godavari	Polavaram Island project.	..	..	73	1,168	10,665	5,87,600
Do.	Godavari delta system ..	109	3,937	23,323	34,14,339	437,147	2,92,53,492
West Godavari	Do. ..	111	3,728	25,295	4,00,972	529,171	2,83,19,275
Kistna	Do. ..	..	..	1	10	681	15,416
	Total ..	220	7,665	54,619	38,15,321	9,66,999	5,75,88,183
West Godavari	Kistna delta system ..	..	..	97	605	40,162	23,41,275
Kistna	Do. ..	285	3,370	5,475	1,88,082	428,334	2,52,99,095
Guntur	Do. ..	84	3,257	5,820	1,26,559	328,520	2,14,25,437
	Total ..	369	6,627	11,462	3,15,247	797,016	4,90,65,807
Kistna	Divi pumping system ..	3	203	203	1,260	40,331	18,37,289
Nellore	Penner river canals system.	2,129	68,720	3,481	1,00,386	186,690	97,88,375
Coimbatore	Arakkankottai channel ..	27	2,134	90	7,965	5,216	5,06,210
Do.	Tadepalli channel ..	45	2,784	1,408	1,15,744	16,872	15,44,724
Do.	Kalingarayan channel ..	1,568	1,36,532	4,730	4,44,328	22,910	21,75,968
North Arcot	Palar ancient system ..	6,490	3,26,385	3,106	52,758	78,336	41,19,373
Chingleput	Do. ..	1,125	39,713	351	1,705	30,713	15,05,668
	Total ..	7,615	3,65,093	3,457	54,463	109,049	56,25,041

APPENDIX I

Do.	..	Chembrambakkam tank ..	280	9,231	1,217	1,17,071	15,493	8,01,252
North Arcot	..	Poinoy anicut system ..	3,608	1,90,602	2,214	29,901	29,866	16,85,639
Chittoor	..	Do.	508	33,780	278	3,493	2,313	1,45,497
		Total ..	4,016	2,24,382	2,492	33,394	32,179	18,31,036
North Arcot	..	Cheyar anicut system ..	918	51,134	452	9,030	33,429	18,41,003
Chingleput	..	Do.	10	375	8	24	583	25,993
		Total ..	928	51,509	460	9,054	34,012	18,66,996
South Arcot	..	Tirukkoyilur anicut system.	3,771	1,72,499	3,041	91,921	34,566	19,54,824
Do.	..	Shatilothe anicut system.	693	41,527	1,458	23,632	38,271	22,41,714
Do.	..	Mebamattur anicut system.	49	2,342	352	5,102	4,965	3,09,529
Do.	..	Vriddhaachalam anicut system.	211	10,571	689	6,004	9,122	5,70,449
Do.	..	Toludur project ..	80	3,788	4,959	55,712	22,016	11,68,593
Do.	..	Pelandorai anicut system.	176	7,647	975	22,030	13,685	8,94,819
Do	..	Lower Coleroon anicut system.	240	9,834	1,299	25,121	92,007	62,89,199
Tanjore	..	Do.	125	4,954	747	76,673	24,711	12,63,275
		Total ..	374	14,788	2,046	1,01,794	116,718	75,52,474
Tanjore	..	Cauvery delta system ..	3,863	1,55,797	31,678	54,52,769	876,211	4,30,18,695
Trichinopoly	..	Do.	861	44,423	3,115	3,13,629	60,712	54,61,702
		Total ..	4,724	2,00,220	34,793	57,66,398	936,923	4,84,80,397
Trichinopoly	..	Nandiyar channel system.	405	15,265	1,437	98,285	8,600	5,83,104
Do.	..	South Bank Canal ..	397	18,721	5,955	6,47,030	46,408	28,84,872
Madura	..	Periyar system ..	2,978	1,17,082	5,222	11,36,594	173,119	1,48,70,742
Ramnad	..	Do.	..	..	..	..	93	8,243
		Total ..	2,978	1,17,082	5,222	11,36,594	173,212	1,48,78,985
Tinnevely	..	Srivaikuntam anicut system.	81	3,468	1,836	2,06,671	41,714	23,42,977
Do.	..	Marudur anicut system ..	185	7,270	1,289	1,23,491	29,921	19,61,926
Kurnool	..	Cumbum tank ..	2,597	1,11,255	1,209	19,139	5,474	2,07,463
		Total of Productive Works.	35,975	16,70,798	160,590	1,32,35,680	3,788,199	22,32,88,351

E-III.—Statement showing the area actually irrigated by flow and lift under Productive and Unproductive Works and the value of crops raised thereon for fasli 1340 (1930-31)—*cont.*

Districts.	Names of systems.	Value of crops— <i>cont.</i>					
		Ragi.		Other crops.		Total.	
		Area irrigated. (11)	Estimated value. (12)	Area irrigated. (13)	Estimated value. (14)	Area irrigated. (15)	Estimated value. (16)
	(ii) <i>Unproductive Works</i> — <i>cont.</i>	ACS.	RS.	ACS.	RS.	ACS.	RS.
Ganjam	Rushikulya system ..	269	5,048	932	71,244	107,997	48,02,355
Vizagapatam	Nagavalli river project ..	114	3,769	699	6,698	25,917	15,28,225
Kistna	Muniyeru project ..	..	..	66	887	8,786	5,43,163
Guntur	Jangamaheswarapuram tank.	2	148	14	270	254	16,971
Do.	Atmakur tank	16	664	22	318	356	14,274
Do.	Dondapad tank	19	1,471	14	400	165	10,678
Do.	Bhavanasi tank	33	2,079	25	697	659	52,123
Nellore	Mopad project	614	29,613	503	7,078	5,729	2,29,540
Do.	Hajipuram tank	404	21,910	110	1,100	594	27,030
Do.	Ponnalur tank	2	62	239	2,500	1,051	48,055
Do.	Anamasamudram Biraperu tank.	5	247	8	420	1,332	56,603
Do.	Yerur tank	..	..	..	..	1,263	53,574

19	Cuddapah	..	..	Sagileru system	..	..	1,312	50,463	417	1,765	4,625	2,48,716
	Do.	..	..	Chepad channel	..	..	431	16,082	1,425	40,105	9,526	5,49,968
	Do.	..	..	Nagavaram anicut and supply channel.	..	..	52	3,188	240	1,500	1,012	42,972
	Kurnool	..	..	Markapur tank	..	..	620	26,548	92	827	1,995	1,05,151
	Do.	..	..	Kocheruvu tank	..	..	..	..	139	28,300	202	32,093
	Do.	..	..	Siddapur tank	..	..	..	..	..	..	..	..
	Do.	..	..	Venkatapuram tank	..	..	..	..	..	..	201	12,123
	Do.	..	..	Kurnool-Cuddapah canal.	..	..	46	2,162	23,052	3,98,488	41,490	16,00,978
	Cuddapah	..	..	Do.	..	..	3,212	1,34,501	9,480	1,68,135	32,263	13,97,363
				Total	..	..	3,258	1,36,663	32,532	5,66,623	73,753	29,98,341
	Anantapur	..	..	Yellanur tank	..	..	38	1,765	403	2,000	645	14,554
	Salem	..	..	Barur tank	..	..	270	11,761	579	61,544	5,170	3,07,419
	Coimbatore	..	..	Kanniyampalayam anicut.	..	..	2	165	1	100	210	14,867
	Chingleput	..	..	Madras water-supply and irrigation system.	..	..	232	7,408	745	56,488	10,671	5,90,063
	Do.	..	..	Vallur anicut system	..	..	49	1,027	265	10,760	4,730	2,42,402
	Trichinopoly	..	..	Panjapatti reservoir project.	..	..	4	164	31	675	37	922
				Total of Unproductive Works.			7,746	3,20,225	39,501	8,62,279	266,880	1,25,42,182
				Grand Total of Productive and Unproductive Works.			43,721	19,91,023	190,091	1,41,97,859	4,055,079	23,58,30,533

E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the revenue year ending 30th June 1931.

Civil districts.	Of the civil districts.			Works supplying irrigation.		Culturable area commanded by the irrigation works in column (6) in acres.	Area at present estimated as annually irrigable by the works as specified in column (6) in acres.	Area irrigated in acres.		
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.			Revenue year ending 30th June 1930.		
								Kharif, I Crop.	Rabi, II Crop.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Ganjam ..	5,364,818	2,815,687	1,774,889	1	Ganjam minor rivers system.	64,000	66,800	65,236	2,550	67,786
				2	Rushikulya system ..	142,000	109,182	107,759	1,330	109,089
				3	Minor Works	129,988	129,988	123,511	8,653	132,164
					Total ..	335,988	305,970	296,506	12,533	309,039
Vizagapatam ..	10,999,240	5,650,433	3,197,264	1	Nagavalli river project ..	31,200	26,425	25,068	625	25,693
				2	Minor Works	91,047	91,047	85,228	8,017	93,245
					Total ..	122,247	117,542	110,296	8,642	118,938
East Godavari.	3,980,698	1,931,082	1,267,758	1	Godavari delta system ..	396,253	377,000	363,225	88,035	451,260
				2	Polavaram Island project.	..	13,150	8,726	5	8,731
				3	Minor Works	84,727	84,727	57,614	2,253	59,867
					Total ..	480,980	474,877	429,565	90,293	519,858
West Godavari.	1,511,021	1,344,439	980,528	1	Godavari delta system ..	565,000	414,500	417,860	137,189	555,049
				2	Kistna delta system ..	..	..	40,211	49	40,260
				3	Minor Works	43,068	43,068	24,137	286	29,423
					Total ..	608,068	457,568	487,208	137,524	624,732
Kistna ..	2,269,786	1,556,046	1,223,428	1	Kistna delta system ..	543,000	445,300	428,735	1,936	430,671
				2	Godavari delta system ..	..	..	307	84	391
				3	Divi pumping system ..	80,000	42,000	39,679	..	39,679
				4	Muniyera project ..	13,024	10,000	8,073	..	8,073

Guntur	3,683,824	2,855,465	2,442,523	5	Minor Works	20,476	20,476	18,384	248	18,632
					Total	653,500	517,776	495,178	2,268	497,446
				1	Kistna delta system ..	357,000	330,000	325,123	4,218	329,341
Kurnool	4,843,696	2,880,550	2,148,709	2	Bhavanasi tank	2,448	841	475	193	666
				3	Dondapad tank	2,880	1,930	203	4	207
				4	Atmakur tank	1,160	1,160	394	..	394
				5	Jangamaheswarapuram tank.	960	960	97	..	97
				6	Minor Works	25,726	25,726	16,285	395	16,680
					Total ..	390,174	360,617	342,575	4,810	347,385
				1	Kurnool-Cuddapah canal.	319,869	103,748	42,141	5,581	47,722
Bellary	3,655,359	3,068,778	2,513,957	2	Venkatapuram tank ..	1,700	239	75	..	75
				3	Cumbum tank	6,000	5,980	5,062	590	5,652
				4	Markapur tank	1,701	1,583	1,130	58	1,218
				5	Siddhapur tank	4,250	3,730	519	1	520
				6	Kocheruvu tank	1,026	194	75	5	80
				7	Minor Works	45,823	45,823	36,712	2,767	39,479
					Total ..	380,369	151,292	85,744	9,002	91,746
Anantapur	4,307,115	3,336,066	2,113,950	..	Minor Works	55,700	55,700	46,602	6,854	53,456
				1	Yellanur tank	1,641	914	266	11	277
				2	Minor Works	162,167	162,167	130,496	27,723	158,219
Cuddapah	3,724,695	2,282,115	1,160,062		Total ..	163,808	163,081	130,762	27,734	158,496
				1	Kurnool-Cuddapah canal, including Chepad channel.	37,700	19,676	38,375	4,469	42,844
				2	Sagileru system	26,576	4,664	4,171	1,463	5,634
				3	Nagavaram anicut and supply channel.	894	894	588	116	704
				4	Minor Works	107,735	107,735	96,869	22,745	119,614
					Total ..	172,905	132,939	140,003	28,793	138,796

* Excluding Feudatory States.

NOTE.—Prepared by the Board of Revenue—Vide B. P. No. 95, dated 29th October 1931.

**E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the
revenue year ending 30th June 1931—cont.**

Civil districts.	Of the civil districts.			Works supplying irrigation.		Culturable area commanded by the irrigation works in column (6) in acres.	Area at present estimated as annually irrigable by the works as specified in column (6) in acres.	Area irrigated in acres.		
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.			Revenue year ending 30th June 1930.		
								Kharif, I Crop.	Rabi, II Crop.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Nellore ..	5,087,200	3,003,881	1,517,236	1	Pennér river canal system.	190,000	147,274	156,150	17,483	173,633
				2	Mopad project	13,890	12,500	3,408	522	3,930
				3	Ponnalur tank	1,973	1,000	694	93	787
				4	Anamasamudram-Biraperu tank.	1,000	961	834	..	834
				5	Yerur tank	3,176	1,470	1,067	..	1,067
				6	Hajipuram tank	2,900	1,420	576	4	580
				7	Minor Works	137,994	137,994	124,198	7,998	132,196
					Total ..	350,933	302,619	286,927	26,100	313,027
Chingleput ..	1,965,827	1,268,408	989,030	1	Palar anicut system ..	24,102	24,102	20,143	7,067	27,240
				2	Chembrambakkam tank ..	24,478	18,000	12,071	2,514	14,585
				3	Vallūr anicut system ..	6,794	5,216	4,533	135	4,668
				4	Cheyyar anicut system ..	540	494	401	144	545
				5	Madras water-supply and irrigation system.	10,165	9,852	6,891	2,378	9,269
				6	Minor Works	357,675	357,675	327,500	128,425	455,925
					Total ..	428,754	415,339	371,539	140,693	512,232
South Arcot ..	2,693,098	1,873,154	1,586,651	1	Lower Coleroon anicut system.	86,000	84,244	84,255	6,083	90,338
				2	Shatlatope anicut system.	43,965	34,025	31,222	7,330	38,552
				3	Vriddhaohalam anicut system.	16,359	8,829	8,618	177	8,795
				4	Mehamattūr anicut system.	10,651	4,555	4,427	231	4,658

North Arcot ..	2,982,886	1,737,465	1,502,540	5	Tirukkōyilūr anicut system.	45,977	30,954	25,195	5,377	30,572
				6	Pelandorai anicut system.	16,677	12,837	12,065	479	12,544
				7	Toludur project	25,000	25,000	15,940	2,987	18,927
				8	Minor Works	303,659	303,659	278,648	101,442	380,090
					Total ..	548,288	504,103	460,370	124,106	584,476
				1	Palar anicut system ..	80,930	54,566	45,723	14,037	59,760
				2	Cheyyar do. ..	28,921	22,193	20,339	13,405	33,744
				3	Poincy do. ..	23,824	22,462	18,147	3,231	21,378
				4	Minor Works	231,981	231,981	195,436	77,069	272,505
					Total ..	365,656	331,262	279,645	107,742	387,387
Chittoor ..	3,778,855	1,672,222	931,534	1	Poincy anicut system ..	..	..	1,185	298	1,483
				2	Minor Works	117,781	117,781	88,317	23,075	111,392
					Total ..	117,781	117,781	89,502	23,373	112,875
Salem ..	4,517,107	2,681,804	1,881,233	1	Barūr tank	6,887	3,750	3,356	1,447	4,803
				2	Minor Works	108,522	108,522	91,561	38,731	130,292
					Total ..	115,409	112,272	94,917	40,178	135,095
Coimbatore ..	4,527,288	2,797,884	2,245,875	1	Tadepalli channel ..	16,000	15,400	14,994	2,613	17,607
				2	Arakkankōttai channel ..	6,000	4,845	4,676	637	5,363
				3	Kalingarāyan channel ..	15,000	12,239	12,208	10,575	22,783
				4	Kanniyampalayam anicut.	1,600	213	208	..	208
				5	Minor Works	72,592	72,592	65,757	20,769	86,526
					Total ..	111,192	105,289	97,843	34,644	132,487
Trichinopoly.*	2,761,261	2,187,205	1,466,404	1	Cauvery delta system ..	44,657	44,008	42,371	18,867	61,288
				2	Nandiyar channel system.	9,480	7,084	6,492	2,426	8,918
				3	Panjapatti reservoir project.	900	600	..	..	..
				4	South bank canal ..	..	36,623	35,252	9,081	44,333
				5	Minor Works	124,995	124,995	104,506	45,572	150,078
					Total ..	180,042	213,310	188,621	75,946	264,567

* Excluding Feudatory States.

**E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the
revenue year ending 30th June 1931—cont.**

Civil districts.	Of the civil districts.			Works supplying irrigation.		Culturable area commanded by the irrigation works in column (6) in acres.	Area at present estimated as annually irrigable by the works as specified in column (6) in acres.	Area irrigated in acres.		
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.			Revenue year ending 30th June 1930.		
								Kharif, I Crop.	Rabi, II Crop.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Tanjore ..	2,396,896	1,719,174	1,526,141	1	Cauvery delta system ..	864,367	856,918	820,991	74,905	895,896
				2	Lower Coleroon anicut system.	31,233	23,685	22,829	1,705	24,534
				3	Minor Works	59,168	59,168	50,258	5,022	55,280
				Total ..	954,768	939,771	894,078	81,632	975,710	
Madura ..	3,158,105	2,214,808	1,436,056	1	Periyar system	Not known.	143,000	128,653	50,409	179,062
				2	Minor Works	131,210	131,210	110,917	34,956	145,873
				Total ..	131,210	274,210	239,570	85,365	324,935	
Ramnad ..	3,101,229	2,169,526	1,307,029	1	Periyar system					
				2	Minor Works	37,798	37,798	34,997	15,890	50,887
				Total ..	37,798	37,798	34,997	15,890	50,887	
Tinnevelly ..	2,788,692	2,025,738	1,379,715	1	Srivaikuntam anicut system.	33,500	27,798	24,050	16,381	40,431
				2	Marudur anicut system ..	17,920	17,920	17,063	15,141	32,204
				3	Minor Works	184,714	184,714	176,316	104,422	280,768
				Total ..	236,134	230,432	217,459	135,944	353,403	
Grand Total ..	84,098,273	53,066,930	36,592,512	1	Total of Productive and Unproductive Works.	4,305,158	3,696,978	3,530,628	536,754	4,067,382
				2	Total of Minor Works ..	2,634,546	2,634,546	2,289,279	683,312	2,972,591
				Total ..	6,939,704	6,271,518	5,819,907	1,220,066	7,039,973	

E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the revenue year ending 30th June 1931—cont.

Civil districts.	Of the civil districts.			Works supplying irrigation.		Area irrigated in acres—cont.			Rainfall in inches.	
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.	Revenue year ending 30th June 1931.			1929-30,	1930-31.
						Kharif, I Crop.	Rabi, II Crop.	Total.		
						(12)	(13)	(14)	(15)	(16)
Ganjam ..	5,364,818	2,815,687	1,774,889	1	Ganjam minor rivers system.	65,570	3,602	69,172	47·17	51·21
				2	Rushikulya system ..	106,957	1,040	107,997		
				3	Minor Works	125,551	8,250	133,801		
					Total ..	298,078	12,892	310,970		
Vizagapatam.	10,999,240	5,650,433	3,197,264	1	Nagavalli river project ..	25,202	715	25,917	38·09	43·51
				2	Minor Works	76,857	8,941	85,798		
					Total ..	102,059	9,656	111,715		
East Godavari.	3,980,698	1,931,082	1,267,758	1	Godavari delta system ..	358,046	80,162	438,208	37·14	55·97
				2	Polavaram Island Project.	10,676	8	10,684		
				3	Minor Works	67,256	5,236	72,492		
					Total ..	435,978	85,406	521,384		
West Godavari.	1,511,021	1,344,439	980,528	1	Godavari delta system ..	417,418	112,392	529,810	34·46	48·58
				2	Kistna delta system ..	40,108	54	40,162		
				3	Minor Works	38,639	532	39,171		
					Total ..	496,165	112,978	609,143		

E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the revenue year ending 30th June 1931—*cont.*

Civil districts.	Of the civil districts.			Works supplying irrigation.		Area irrigated in acres— <i>cont.</i>			Rainfall in inches.	
	Total area. in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.	Revenue year ending 30th June 1931.			1929-30.	1930-31.
						Kharif, I Crop.	Rabi, II Crop.	Total.		
						(12)	(13)	(14)	(15)	(16)
Kistna ..	2,269,786	1,556,046	1,223,428	1	Kistna delta system ..	425,752	2,624	428,376	29.36	49.45
				2	Godavari delta system ..	675	6	681		
				3	Divi pumping system ..	40,554	..	40,554		
				4	Muniyera project ..	8,786	..	8,786		
				5	Minor Works ..	19,630	193	19,823		
					Total ..	495,397	2,823	498,220		
Guntur ..	3,683,824	2,855,465	2,442,523	1	Kistna delta system ..	326,233	2,291	328,524	21.99	38.95
				2	Bhavanasi tank ..	411	248	659		
				3	Dondapad tank ..	159	6	165		
				4	Atmakur tank ..	356	..	356		
				5	Jangamaheswarapuram tank.	247	7	254		
				6	Minor Works ..	19,790	1,763	21,553		
					Total ..	347,196	4,315	351,511		
Kurnool ..	4,843,696	2,880,550	2,148,709	1	Kurnool-Cuddapah canal.	35,510	5,983	41,493	20.05	23.52
				2	Venkatapuram tank ..	193	8	201		
				3	Cumbum tank ..	4,585	889	5,474		
				4	Markapur tank ..	1,370	625	1,995		
				5	Siddhapur tank ..	..	..	..		
				6	Koosheruvu tank ..	135	67	202		
				7	Minor Works ..	41,069	4,970	46,039		
					Total ..	82,862	12,542	95,404		

20	Bellary *	3,655,359	3,063,778	2,513,957	..	15. Koviloor Academy Minor Works	45,868	6,013	51,881	22.26	22.64
	Anantapur ..	4,307,115	3,336,066	2,113,950	{ 1 2	Yellanur tank Minor Works	618 135,799	27 44,211	645 180,010	} 23.94	26.12
						Total ..	136,417	44,238	180,655		
	Cuddapah ..	3,724,695	2,282,115	1,160,062	{ 1 2 3 4	Kurnool-Cuddapah canal, including Chepad channel. Sagileru system Nagavaram anicut and supply channel. Minor Works	38,611 4,130 603 99,591	5,180 495 409 40,540	41,791 4,625 1,012 140,131	} 25.99	35.09
						Total ..	140,935	46,624	187,559		
	Nellore ..	5,087,200	3,003,881	1,517,236	{ 1 2 3 4 5 6 7	Penner river canals system. Mopad project Ponnalur tank Anamasamudram-Biraperu tank. Yerur tank Hajipuram tank Minor Works	158,106 3,550 733 972 1,263 554 132,039	28,982 2,179 318 360 .. 40 31,287	187,088 5,729 1,051 1,332 1,263 594 163,326	} 33.66	52.29
						Total ..	297,217	63,166	360,383		
	Chingleput ..	1,965,897	1,268,408	989,030	{ 1 2 3 4 5 6	Palar anicut Chembrambakkam tank .. Vallur anicut system .. Cheyyar anicut system .. Madras water-supply and irrigation system. Minor Works	20,431 12,840 4,568 386 6,988 325,944	10,282 2,881 166 205 3,696 123,829	30,713 15,721 4,734 591 10,684 449,773	} 50.84	63.77
						Total ..	371,157	141,059	512,216		

* Excluding Fendatory States.

E-IV.—Comparative statement of irrigation and rainfall in the Madras Presidency for the revenue year ending 30th June 1931—*cont.*

Civil districts.	Of the civil districts.			Works supplying irrigation.		Area irrigated in acres— <i>cont.</i>			Rainfall in inches.	
	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.	Revenue year ending 30th June 1931.			1929-30.	1930-31.
						Kharif, I Crop.	Rabi, II Crop.	Total.		
						(12)	(13)	(14)	(15)	(16)
South Arcot ..	2,693,098	1,873,154	1,586,651	1	Lower Coleroon anicut system.	83,386	8,745	92,131	53.28	52.41
				2	Shatiatepe anicut system.	30,451	7,820	38,271		
				3	Vriddhachalam anicut system.	8,377	745	9,122		
				4	Mehamattur anicut system.	4,491	474	4,965		
				5	Tirukkoyilur anicut system.	26,305	8,261	34,566		
				6	Pelandorai anicut system.	12,424	1,261	13,685		
				7	Toludur project	16,827	5,189	22,016		
				8	Minor Works	282,635	94,745	377,380		
					Total ..	464,896	127,240	592,136		
North Arcot ..	2,982,386	1,737,465	1,502,540	1	Palar anicut system ..	51,422	27,006	78,428	37.99	48.82
				2	Cheygar do. ..	20,224	13,300	33,524		
				3	Poincy do. ..	20,139	9,729	29,868		
				4	Minor Works	213,562	102,160	315,722		
					Total ..	305,347	162,195	467,542		
Chittoor ..	3,778,855	1,672,222	931,534	1	Poincy anicut system ..	1,454	859	2,313	34.65	47.80
				2	Minor Works	102,609	55,699	158,308		
					Total ..	104,063	56,558	160,621		

Salem ..	4,517,107	2,681,804	1,881,233	1	Barur tank	3,423	1,747	5,170	33.36	39.20
				2	Minor Works	97,502	43,466	140,968		
					Total	100,925	45,213	146,138		
Coimbatore ..	4,527,288	2,797,884	2,245,875	1	Tadepalli channel ..	14,948	1,924	16,872	27.77	41.58
				2	Arakkankottai channel ..	4,780	436	5,216		
				3	Kalingarayan channel ..	12,101	10,809	22,910		
				4	Kanniyampalayam anicut.	208	2	210		
				5	Minor Works	70,060	22,599	92,659		
					Total	102,097	35,770	137,867		
Trichinopoly. *	2,761,261	2,187,205	1,466,404	1	Cauvery delta system ..	42,343	18,369	60,712	35.08	44.56
				2	Nandiyar channel ..	6,478	2,122	8,600		
				3	Panjapatti reservoir project	35	2	37		
				4	South Bank canal ..	34,762	11,853	46,615		
				5	Minor Works	111,130	43,273	154,403		
					Total	194,748	75,619	270,367		
Tanjore ..	2,396,896	1,719,174	1,526,141	1	Cauvery delta system ..	803,545	77,849	881,394	55.64	56.74
				2	Lower Coleroon anicut system.	22,614	2,548	25,162		
				3	Minor Works	47,131	6,917	54,048		
					Total	873,290	87,314	960,604		
Madura ..	3,158,105	2,214,808	1,436,056	1	Periyar system	128,082	45,103	173,185	37.85	42.51
				2	Minor Works	118,148	33,193	151,341		
					Total	246,230	78,296	324,526		
Ramnad ..	3,101,229	2,169,526	1,307,029	1	Periyar system	93	..	93	41.35	36.89
				2	Minor Works	36,154	14,318	50,472		
					Total	36,247	14,318	50,665		
Tinnevely ..	2,788,699	2,025,738	1,379,715	1	Srivaikuntam anicut system.	24,233	17,866	42,099	42.64	26.82
				2	Marudur anicut system ..	17,042	12,970	30,012		
				3	Minor Works	175,113	95,997	271,110		
					Total	216,388	126,833	343,221		
Grand Total ..	84,098,273	53,066,930	36,592,512	1	Total of Productive and Unproductive Works.	3,511,483	552,936	4,064,419	35.66	43.12
				2	Total of Minor Works ..	2,382,077	788,132	3,170,209		
					Total	5,893,560	1,341,068	7,234,628		

* Excluding Feudatory States.

11. The charge for a single wet crop when the Collector considers the supply of water to be precarious.	2 8 0	2 8 0	..	..	..	..	..	..	..
12. Second wet crop in the case of zamindari and inam lands.	..	5 0 0	..	..	..	..	..	..	..
13. Second wet crop in the case of zamindari and inam lands where the cultivator has compounded for two crops for a term of not less than five years.	..	8 2 0	..	..	..	..	..	..	..
14. For sugarcane, betel and other garden produce remaining on the ground for the time of two crops.	..	7 8 0 plus half the dry assess- ment.	..	..	..	..	..	..	..
15. For sugarcane, betel and other garden produce in zamindari and inam lands remaining on the ground for the time of two crops.	..	10 0 0	..	..	..	..	..	..	..
16. For sugarcane, betel and other garden produce in zamindari and inam lands remaining on the ground for the time of two crops, if the cultivator has compounded for a term of not less than five years.	..	8 2 0	..	..	..	..	..	..	..
17 to 20. Nil	..	..	..	..	..	..	..	..	..
21. For a first dry crop systematically irrigated.	..	..	5 0 0	..	..	..	..	..	..
22. For a second dry crop systematically irrigated.	..	..	3 0 0	..	..	..	..	..	..
23. For a first or second dry crop occasionally irrigated.	..	..	2 8 0	..	..	..	..	..	..
24. Special crops like onions, sweet potatoes, chillies, tobacco (the same as for a dry crop systematically irrigated).	..	..	5 0 0	..	..	..	..	..	..
25. Mango topes, coconut topes and other tope plantations—	..	..	..	..	..	..	..	..	..
(a) If they take water for a term of two wet crops.	..	..	8 0 0	..	..	..	..	..	..
(b) In other cases	..	..	5 0 0	..	..	..	..	..	..

NOTE.—When the water used for irrigation cannot be obtained without raising it by baling or by some mechanical contrivance, a deduction of one-fourth of the water-rate will be made.

* Double the rates are levied when Periyar water is supplied to Government and minor inam dry lands in the Cumbum valley, Periyakulam taluk, to which extension of irrigation had been sanctioned.

† No charge for water for twenty years under G.O. No. 128 I., dated 17th March 1916.

First crop on dry land.		Second crop on dry land.		Charge for		Total charge.
				First crop.	Second crop.	
1. Wet	..	Wet	..	RS. 4	RS. A. P. 2 0 0	RS. A. P. 6 0 0
2. Do.	..	Dry, systematically irrigated..	..	4	1 8 0	5 8 0
3. Do.	..	Dry, occasionally irrigated ..	..	4	1 0 0	5 0 0
4. Dry, systematically irrigated.	..	Wet ..	..	3	2 8 0	5 8 0
5. Do. do	..	Dry, systematically irrigated..	..	3	2 0 0	5 0 0
6. Do. do	..	Dry, occasionally irrigated ..	..	3	1 8 0	4 8 0
7. Dry, occasionally irrigated.	..	Wet ..	..	2	3 0 0	5 0 0
8. Do. do	..	Dry, systematically irrigated..	..	2	2 8 0	4 8 0
9. Do. do	..	Dry, occasionally irrigated ..	..	2	2 0 0	4 0 0

[Prepared by the Board of Revenue—vide B. P. No. 83, dated 30th September 1931.]

I.—Statement showing the financial results of irrigation under Productive and Unproductive Works for fasli 1340 (1930-31).

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Systems.	Area charged as irrigated and area irrigated free of charge.						Direct receipts.		
	First crop.			Second crop.			Total land and irrigation revenue.	Share due to irrigation.	Deduct remissions and deductions.
	Old irrigation.	New irrigation.	Total.	Old irrigation.	New irrigation.	Total.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
A. IRRIGATION WORKS.									
(i) PRODUCTIVE WORKS	ACS.	ACS.	ACS.	ACS.	ACS.	ACS.	RS.	RS.	RS.
1. Ganjam minor rivers system ..	51,260	15,523	66,783	..	3,552	3,552	2,27,421	1,52,718	1,087
2. Godavari delta system ..	156,150	643,206	799,350	..	192,999	192,999	50,85,157	39,36,345	39,233
3. Kistna delta system ..	70,710	734,860	805,570	..	4,970	4,970	48,80,650	39,18,733	52,159
4. Divi pumping system ..	9,900	30,989	40,889	..	..	..	1,94,818	1,94,818	8,039
5. Penner river canals system ..	99,080	63,691	162,771	1,050	27,933	28,983	10,43,840	8,92,221	5,675
6. Arakkankottai channel ..	2,730	2,063	4,793	10	426	436	44,869	38,515	..
7. Tadepalli channel ..	9,990	5,631	15,621	170	1,754	1,924	1,61,576	1,39,514	..
8. Kalingarayan channel ..	8,300	3,910	12,210	8,350	2,459	10,809	1,48,202	1,30,654	223
9. Palar anicut system ..	53,890	24,318	78,208	16,070	22,301	38,371	4,68,901	3,61,174	7,202
10. Chembrambakkam tank ..	11,370	2,135	13,505	1,160	1,752	2,912	78,515	56,132	124
11. Poincy anicut system ..	15,550	7,708	23,258	2,500	8,088	10,588	1,59,707	1,24,769	586
12. Cheyyar anicut system ..	14,960	7,412	22,372	1,630	11,875	13,505	1,60,907	1,16,274	3,861
13. Tirukkoyilur anicut system ..	16,080	11,180	27,260	30	8,231	8,261	1,82,017	1,37,559	34
14. Shatiatepe anicut system ..	7,160	25,333	32,493	..	7,820	7,820	2,22,889	1,66,861	2,740
15. Mehamattur anicut system ..	990	3,552	4,542	..	474	474	35,108	24,979	..
16. Vriddhachalam anicut system ..	2,430	6,120	8,550	..	745	745	58,042	41,538	79
17. Toludur project ..	2,590	14,345	16,935	260	4,929	5,189	1,31,681	1,27,477	..
18. Lower Coleroon anicut system ..	44,760	64,455	109,215	170	11,192	11,362	8,49,379	5,79,972	28,789
19. Cauvery delta system ..	745,350	135,203	880,553	34,030	63,344	97,424	65,53,793	51,52,431	10,52,922
20. Nandiyar channel system ..	4,680	2,042	6,722	1,570	552	2,122	40,630	29,955	490
21. Periyar system ..	65,600	66,009	131,609	16,100	29,026	45,126	11,00,601	9,97,409	4,602
22. Srivaikuntam anicut system ..	14,580	11,225	25,805	5,850	12,016	17,866	2,80,262	2,38,360	1,746
23. Marudur anicut system ..	17,020	494	17,514	590	12,380	12,970	2,43,331	2,10,082	423
24. Cumbum tank ..	4,860	592	5,452	2,670	1,781	889	39,707	34,838	15,818
25. Pelandorai anicut system ..	2,120	10,597	12,717	100	1,161	1,261	80,582	59,872	10
26. South Bank canal ..	27,860	8,040	35,900	8,250	3,776	12,026	3,84,125	3,04,986	67,863
27. Polavaram Island project ..	..	10,979	10,979	..	8	8	1,09,185	1,09,185	2,945
Total of Productive Works ..	1,452,960	1,911,006	3,370,966	100,610	431,982	532,592	2,29,65,895	1,82,77,371	12,96,650

(ii) UNPRODUCTIVE WORKS.

28. Rushikulya system	58,100	50,424	1,08,524	..	1,040	1,040	3,76,130	2,53,362	1,579
29. Nagavalli river project	10,600	15,914	26,514	5,200	— 4,485	715	1,33,886	1,08,833	2,707
30. Muniyeru project	600	8,294	8,894	..	..	..	47,705	37,795	..
31. Jangamaheswarapuram tank	150	305	455	7	..	7	2,230	1,487	162
32. Atmakur tank	..	765	765	..	..	..	3,674	2,974	..
33. Bhavanasi tank	..	411	411	..	248	248	5,205	5,205	..
34. Dondapad tank	..	159	159	..	6	6	636	636	..
35. Mopad project	..	3,568	3,568	..	2,179	2,179	38,189	37,916	8
36. Hajipuram tank	..	742	742	..	40	40	3,623	3,018	151
37. Ponnalur tank	..	811	811	..	318	318	7,017	5,754	330
38. Anamasamudram-Biraperu tank..	900	115	1,015	80	280	360	6,081	5,572	..
39. Yerur tank	80	1,440	1,520	2	— 2	..	5,370	4,147	47
40. Sagileru system	3,900	358	4,258	700	— 205	495	20,658	18,311	3
41. Markapur tank	450	953	1,403	50	575	625	7,519	6,982	..
42. Yellalur tank	..	864	864	..	27	27	4,410	3,774	678
43. Kocheruvu tank	182	— 3	179	50	17	67	1,112	994	..
44. Siddapur tank	..	..	..	..	..	..	186	186	..
45. Nagavaram anicut and supply channel.	452	177	629	235	174	409	4,684	4,039	2
46. Venkatapuram tank	53	154	207	1	7	8	980	922	..
47. Kurnool-Cuddapah canal	6,643	57,542	64,185	..	10,509	10,509	3,35,217	3,05,047	13
48. Chepad channel	1,406	7,457	8,863	56	658	714	48,198	45,129	..
49. Barur tank	1,330	2,353	3,683	430	1,317	1,747	27,390	22,803	40
50. Madras water-supply and irrigation system.	5,630	1,883	7,513	780	2,920	3,700	35,729	27,394	473
51. Kanniyampalayam anicut system.	..	208	208	..	2	2	..	..	..
52. Panjapatti reservoir project	..	35	35	..	2	2	117	117	..
53. Vallur anicut system	4,030	1,097	5,127	10	156	166	11,656	7,626	219
Total of Unproductive Works ..	94,506	156,026	250,532	7,601	15,783	23,384	11,27,602	9,08,023	6,412
Grand Total of Productive and Unproductive Works.	1,554,466	2,067,032	3,621,498	108,211	447,765	555,976	2,40,93,497	1,91,85,394	13,03,062

Prepared by the Board of Revenue—Vide B.P. No. 83, dated 30th September 1931.

I.—Statement showing the financial results of irrigation under Productive and Unproductive Works for fasli 1340 (1930-31)—*cont.*

Systems.	Direct receipts— <i>cont.</i>			Indirect receipts.			Total.	Total of columns (13) and (17).
	Net revenue due to irrigation.	Deduct portion due to old irrigation.	Increase of revenue due to the outlay incurred.	Land assessment of waste lands brought under irrigation.	Land revenue of miscellaneous items.	Interest on sale-proceeds of tank bed and other waste lands.		
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
A. IRRIGATION WORKS—<i>cont.</i>								
(i) PRODUCTIVE WORKS—<i>cont.</i>								
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. Ganjam minor rivers system ..	1,51,631	95,000	56,631	7,035	738	27	7,800	64,431
2. Godavari delta system ..	38,97,112	1,24,000	37,73,112	1,81,154	8,161	34,957	2,24,272	39,97,384
3. Kistna delta system ..	38,66,574	71,000	37,95,574	1,00,477	16,703	71,134	1,88,314	39,83,883
4. Divi pumping system ..	1,86,779	20,300	1,66,479	13,253	4,086	69,866	87,205	2,53,684
5. Penner river canals system ..	8,86,546	2,56,000	6,30,546	44,530	3,711	18,696	66,937	6,97,483
6. Arakkankottai channel ..	38,615	19,000	19,515	372	56	..	428	19,943
7. Tadepalli channel ..	1,39,514	76,000	63,514	2,890	39	..	2,929	66,443
8. Kalingarayan channel ..	1,30,431	85,000	45,431	419	64	..	483	45,914
9. Palar anicut system ..	3,53,972	1,25,000	2,28,972	15,513	320	1,009	16,842	2,45,814
10. Chembrambakkam tank ..	56,008	16,000	40,008	898	59	..	957	40,965
11. Poiney anicut system ..	1,24,183	38,000	86,183	5,281	131	50	5,462	91,645
12. Cheyyar anicut system ..	1,12,413	39,000	73,413	3,196	104	1,435	4,735	78,148
13. Tirakkoyilar anicut system ..	1,37,525	60,000	77,525	3,293	76	..	3,369	80,894
14. Shtiatope anicut system ..	1,64,121	20,000	1,44,121	16,713	318	..	17,031	1,61,152
15. Mehamattur anicut system ..	24,979	4,000	20,979	89	23	72	184	21,163
16. Vriddhachalam anicut system ..	41,459	8,500	32,959	302	17	20	339	33,298
17. Toludur project ..	1,27,477	10,590	1,16,887	448	..	..	448	1,17,335
18. Lower Coleroon anicut system ..	5,51,183	1,55,000	3,96,183	51,197	318	..	51,515	4,47,698
19. Cauvery delta system ..	40,99,509	34,00,000	6,99,509	1,13,048	10,571	365	1,23,984	8,23,493
20. Nandiyar channel system ..	29,465	17,000	12,465	58	18	..	76	12,541
21. Periyar system ..	9,92,807	2,04,000	7,88,807	15,371	4,940	74,375	94,686	8,83,493
22. Srivaikuntam anicut system ..	2,36,614	79,000	1,57,614	1,423	67	..	1,490	1,59,104
23. Marudur anicut system ..	2,09,659	1,15,000	94,659	237	42	..	279	94,938
24. Cumbum tank ..	19,020	30,000	— 10,980	443	18	..	461	— 10,519
25. Pelandorai anicut system ..	59,862	3,000	56,862	57	21	8	86	56,948
26. South bank canal ..	2,37,123	2,54,000	— 16,877	15	..	..	15	— 15,862
27. Polavaram Island project ..	1,06,240	..	1,06,240	..	..	..	..	1,06,240
Total of Productive Works ..	1,69,80,721	53,24,390	1,16,56,331	5,77,712	50,601	2,72,014	9,00,327	1,25,56,658

(ii) UNPRODUCTIVE WORKS.									
28. Rushikulya system	2,51,783	67,000	1,84,783	3,719	236	2,047	6,002	1,90,785	
29. Nagavalli river project	1,04,126	37,400	66,726	4,401	1,092	15,721	21,214	87,940	
30. Muniyeru project	37,795	2,500	35,295	2	58	..	60	35,355	
31. Jangamaheswarapuram tank	1,325	500	825	..	..	..	..	825	
32. Atmakur tank	2,974	..	2,974	..	..	..	..	2,974	
33. Bhayanasai tank	5,205	..	5,205	..	..	..	..	5,205	
34. Dondapad tank	636	..	636	8	2	..	10	646	
35. Mopad project	37,908	433	37,475	646	..	4,491	5,137	42,612	
36. Hajipuram tank	2,867	..	2,867	..	15	..	15	2,882	
37. Ponnalur tank	5,424	..	5,424	..	..	..	..	5,424	
38. Anamasamudram-Biraperu tank.	5,572	3,600	1,972	..	1	..	1	1,973	
39. Yerur tank	4,100	425	3,675	22	64	..	86	3,761	
40. Sagilleru system	18,308	17,800	508	22	4	..	26	534	
41. Markapur tank	6,982	2,130	4,852	..	1	..	1	4,853	
42. Yellanur tank	3,096	..	3,096	613	..	491	1,104	4,200	
43. Kocheruvu tank	994	980	14	9	..	..	9	23	
44. Siddapur tank	186	..	186	..	..	..	..	186	
45. Nagavaram anicut and supply channel.	4,037	2,256	1,781	146	..	..	146	1,927	
46. Venkatapuram tank	922	164	758	23	..	..	23	781	
47. Kurnool-Uddapah canal	3,05,034	28,285	2,76,749	890	926	203	2,019	2,78,768	
48. Chepad channel	45,129	7,587	37,542	501	26	4	531	38,073	
49. Barur tank	22,763	4,500	18,263	158	..	600	758	19,021	
50. Madras water-supply and irrigation system.	26,821	11,000	15,821	441	21	..	462	16,383	
51. Kanniyampalaim anicut system.	..	..	..	..	..	..	..	..	
52. Panjapatti reservoir project	117	..	117	14	..	581	595	712	
53. Vallur anicut system	7,407	5,000	2,407	1,067	7	..	1,074	3,481	
Total of Unproductive Works ..	9,01,611	1,91,560	7,10,051	12,682	2,453	24,138	39,273	7,49,324	
Grand Total of Productive and Unproductive Works.	1,78,82,332	55,15,950	1,23,66,382	5,90,394	53,054	2,96,152	9,39,600	1,33,05,982	

Statement No. I—cont.

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Systems.	Net receipts, direct and indirect.				Gross indirect receipts.		
	Average for five years ending 1928-29.	Actuals, 1929-30.	1930-31.		Actuals, 1929-30.	1930-31.	
			Revised estimates.	Actuals.		Revised estimates.	Actuals.
(i) PRODUCTIVE WORKS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1. Ganjam minor rivers system	61,056	63,690	69,000	60,784	7,351	7,351	7,351
2. Godavari delta system	39,49,591	39,82,793	39,38,000	37,98,648	2,23,418	2,23,418	2,23,625
3. Kistna delta system	36,72,784	39,27,432	38,88,000	37,86,891	1,86,523	1,86,523	1,86,883
4. Divi pumping system	2,18,699	2,36,114	2,37,000	2,33,939	75,885	76,129	76,095
5. Penner river canals system	6,08,175	6,23,093	6,06,000	6,62,456	64,923	64,923	65,792
6. Arakkankottai channel	19,325	19,810	21,000	18,929	410	410	410
7. Tadepalli channel	61,962	61,178	64,000	63,093	2,900	2,900	2,900
8. Kalingarayan channel	45,839	46,981	47,000	43,618	483	483	483
9. Palar anicut system	1,52,039	1,47,541	1,46,000	2,33,548	16,815	16,815	16,815
10. Chembrambakkam tank	36,006	36,850	35,000	38,870	908	908	908
11. Poincy anicut system	58,612	49,348	48,000	87,065	5,462	5,462	5,462
12. Cheyyar anicut system	64,245	77,138	65,000	74,312	4,735	4,900	4,735
13. Tirukkoyilar anicut system	59,401	67,546	68,000	76,843	3,362	3,362	3,362
14. Sbatiatope anicut system	1,32,931	1,43,958	1,44,000	1,51,363	15,209	15,209	15,209
15. Mehamattur anicut system	19,249	18,729	19,000	20,050	116	116	123
16. Vriddhaachalam anicut system	31,253	29,349	29,000	31,610	307	307	314
17. Toludur project	80,211	98,958	99,000	1,11,043	..	..	..
18. Lower Coleroon anicut system	3,97,529	4,03,498	4,03,000	4,25,308	51,510	51,510	51,510
19. Cauvery delta system	16,70,487	17,64,278	17,63,000	7,77,067	1,18,437	1,18,437	1,18,437
20. Nandiyar channel system	8,291	10,624	11,000	11,893	54	54	54
21. Periyar system	8,37,237	8,26,526	8,35,000	8,34,984	83,838	83,838	86,209
22. Srivaikuntam anicut system	1,51,946	1,46,589	1,52,000	1,51,149	1,490	1,490	1,490
23. Marudur anicut system	91,787	90,028	90,000	90,183	270	270	270
24. Cumbum tank	3,141	— 15,324	10,000	— 9,993	461	461	461
25. Pelandorai anicut system	50,935	51,370	51,000	54,099	84	84	84

26. South Bank canal	..	..	..	42,921	43,000	— 16,033	..	..	..
27. Polavaram Island project	..	..	..	77,410	1,03,000	1,00,928	..	..	..
(ii) UNPRODUCTIVE WORKS.									
28. Rushikulya system	..	..	..	1,83,253	1,92,931	1,93,000	1,89,781	4,813	4,813
29. Nagavalli river project	..	..	..	79,216	81,051	87,000	85,149	16,765	21,693
30. Muniyeru project	..	..	..	24,002	30,608	38,000	33,587	60	60
31. Jangamaheswarapuram tank	..	..	..	883	— 259	1,000	784	..	..
32. Atmakur tank	..	..	..	2,080	2,859	3,000	2,825	..	..
33. Dondapad tank	..	..	..	965	723	1,000	607	3	3
34. Bhavanasi tank	..	..	..	4,465	5,522	6,000	4,945	..	..
35. Mopad project	..	..	..	31,722	25,702	25,000	40,092	4,491	4,491
36. Hajipuram tank	..	..	..	3,102	3,309	3,000	2,738	15	15
37. Ponnalur tank	..	..	..	4,812	4,552	3,000	5,153	..	..
38. Anamasamudram-Biraperu tank	..	..	..	— 486	— 1,779	1,000	1,874	1	1
39. Yerur tank	..	..	..	1,286	3,245	3,000	3,552	64	64
40. Sagileru system	..	..	..	655	3,242	..	486	4	4
41. Markapur tank	..	..	..	3,923	1,869	3,000	4,610	1	1
42. Yellanur tank	..	..	..	3,454	3,368	3,000	3,432	491	491
43. Kocheruvu tank	..	..	..	— 223	— 360	..	13	..	..
44. Siddapur tank	..	..	..	1,380	4,359	4,000	177	..	..
45. Nagavaram anicut and supply channel	..	..	..	1,638	570	1,000	1,692	..	..
46. Venkatapuram tank	..	..	..	788	351	1,000	720	..	..
47. Kurnool-Cuddapah canal	..	..	..	2,70,625	2,74,285	2,57,000	2,64,465	1,623	1,623
48. Chepad channel	..	..	..	29,847	35,529	33,000	36,027	381	381
49. Barur tank	..	..	..	13,724	17,330	20,000	17,984	636	636
50. Kanniyampalaiyam anicut	..	..	..	..	..	..	..	..	..
51. Madras water-supply and irrigation system	..	..	..	10,544	15,088	14,000	15,564	462	462
52. Panjapatti reservoir project	..	..	..	933	..	..	692	..	..
53. Vallur anicut system	..	..	..	3,459	4,337	4,000	3,307	1,074	1,074

Prepared by the Board of Revenue—Vide B.P. No. 83, dated 30th September 1931.

II.—Statement showing the extent irrigated and the revenue

Districts.	Area charged as irrigated and area irrigated free of charge.						Direct	
	First crop.			Second crop.			Total land and irrigation revenue.	Share due to irrigation.
	Old irrigation.	New irrigation.	Total.	Old irrigation.	New irrigation.	Total.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
			ACS.			ACS.	RS.	RS.
Ganjam	..	..	129,988	..	..	8,257	3,48,972	2,03,354
Vizagapatam	..	..	87,500	..	..	8,966	4,07,899	2,76,336
East Godavari	..	..	80,920	..	..	5,237	3,04,068	2,14,486
West Godavari	..	..	42,567	..	..	532	1,27,296	1,04,336
Kistna	..	..	20,360	..	..	193	82,705	67,781
Guntur	..	..	24,605	..	..	1,767	1,42,329	1,06,056
Nellore	..	..	137,594	..	..	31,287	7,92,514	6,70,720
Cuddapah	..	..	105,706	..	..	40,598	5,21,699	4,49,647
Anantapur	..	..	153,184	..	..	44,326	7,21,765	6,28,769
Bellary	..	..	53,343	..	..	6,937	3,24,942	2,85,668
Kurnool	..	..	43,950	..	..	4,994	1,87,073	1,58,040
Chittoor	..	..	115,082	..	..	55,699	6,28,384	5,15,692
Chinglepet	..	..	356,648	..	..	124,223	15,12,267	11,00,097
North Arcot	..	..	231,086	..	..	102,160	14,54,100	10,66,096
South Arcot	..	..	301,915	..	..	94,885	18,67,076	13,69,114
Tanjore	..	..	57,343	..	..	6,975	2,07,277	1,56,912
Trichinopoly	..	..	123,903	..	..	43,501	7,52,735	5,66,712
Madura	..	..	130,971	..	..	33,026	7,56,020	6,19,124
Ramnad	..	..	37,790	..	..	14,748	2,33,756	1,97,884
Tinnevely	..	..	183,293	..	..	103,050	15,27,390	13,00,936
Coimbatore	..	..	72,585	..	..	22,599	4,86,954	4,07,611
Salem	..	..	107,639	..	..	43,639	6,29,345	4,34,842
Total	..	..	2,597,972	..	..	797,597	1,40,16,568	1,09,00,113

NOTE.—The details of extent and revenue relating to old and

Prepared by the Board of Revenue—*Vide*

APPENDIX II

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derived under "Minor Works" for fasli 1340 (1930-31).

receipts.				Indirect receipts.					Total of columns (13) and (18).
Deduct remissions and deductions. (10)	Net revenue due to irrigation. (11)	Deduct portion due to old irrigation. (12)	Increase of revenue due to the outlay incurred. (13)	Increment of land assessment due to irrigation. (14)	Land assessment of waste lands brought under irrigation. (15)	Land revenue of miscellaneous items. (16)	Interest on sale-proceeds of tank-bed and other waste lands. (17)	Total. (18)	
RS.	RS.								
6,862	1,96,492	}	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.
60,039	2,16,297								
57,692	1,56,794								
2,416	1,01,920								
2,411	65,370								
13,664	92,392								
15,322	6,56,398								
36,372	4,13,175								
1,08,152	5,20,617								
36,539	2,49,129								
26,878	1,31,162								
33,672	4,82,020								
23,397	10,76,700								
30,570	10,35,526								
54,146	13,14,968								
22,540	1,84,372								
18,908	5,47,804								
4,478	6,14,646								
1,263	1,96,621								
22,741	12,78,195								
623	4,06,988								
28,302	4,03,540								
6,06,987	1,02,93,126								

new irrigation are not calculated for "Minor Works."

B.P. No. 91, dated 19th October 1931.

APPENDIX III.

Statement showing the number of wells used for irrigation in fasli 1340 (1930-31)—Parts I and II.

Number and name of district.	Part I.					Part II.				
	Wells which lie in the wet ayacuts of recognized sources of irrigation.					Wells which have independent ayacuts of their own.				
	Wells in actual use.		Number of wells in working order but not used.	Number of abandoned wells.	Total number of wells [columns (2) + (4) + (5)].	Wells in actual use.		Number of wells in working order but not used.	Number of abandoned wells.	Total number of wells [columns (7) + (9) + (10)].
	Number.	Area irrigated.				Number.	Area irrigated.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
		ACS.					ACS.			
1. Ganjam	465	428	47	31	543	..	..	..	..	..
2. Vizagapatam	3,940	5,982	665	551	5,156	648	504	56	22	726
3. East Godavari	29	183	..	..	29	4	27	..	..	4
4. West Godavari	1	2	..	..	1	559	458	..	..	559
5. Kistna	..	..	..	..	..	1,062	2,100	2	13	1,077
6. Guntur	252	765	98	33	383	2,846	10,955	1,124	592	4,562
7. Nellore	7,824	18,914	349	485	8,658	1,737	5,034	330	345	2,412
8. Cuddapah	4,060	9,615	1,291	914	6,265	23,924	74,256	1,520	2,230	27,674
9. Anantapur	9,447	26,980	1,585	2,019	13,051	15,293	45,607	1,785	2,964	20,032
10. Bellary	580	1,690	256	148	984	3,781	11,783	1,874	1,321	6,976
11. Kurnool	440	1,342	317	317	1,074	6,261	25,338	2,504	2,291	11,056
12. Chingleput	13,946	30,436	2,564	1,309	17,819	8,732	12,617	879	510	10,121
13. Chittoor	19,622	34,100	2,243	3,476	25,341	11,678	21,386	1,387	2,212	15,277
14. North Arcot	51,042	97,314	3,588	5,623	60,253	14,925	25,500	916	1,150	16,991
15. South Arcot	28,927	61,160	3,938	2,918	35,783	12,898	18,353	2,569	1,038	16,505
16. Tanjore	..	..	..	..	..	..	..	..	..	..
17. Trichinopoly	13,940	25,347	620	533	15,093	37,278	61,033	1,260	3,021	41,559
18. Madura	8,049	14,543	1,473	1,025	10,547	25,696	56,135	1,236	1,648	28,580
19. Ramnad	3,167	9,220	874	99	4,130	16,806	32,578	638	1,004	18,448
20. Tinnevely	10,528	14,761	1,664	513	12,705	20,519	32,977	689	689	22,067
21. Coimbatore	3,293	15,811	264	278	3,835	83,526	3,71,014	1,418	8,914	93,858
22. Salem	22,760	45,792	1,285	1,954	25,999	49,690	81,544	1,650	2,935	54,275
Total ..	2,02,302	4,15,326	23,121	22,226	2,47,649	3,37,853	9,08,199	22,007	32,899	3,92,759

NOTE.—Prepared by the Board of Revenue—*Vide* B.P. No. 6487 Rt., dated 1st December 1931.

REVIEW OF THE ADMINISTRATIVE ACCOUNTS OF IRRIGATION, NAVIGATION, EMBANKMENT AND DRAINAGE WORKS OF THE MADRAS PRESIDENCY FOR THE YEAR 1930-31.

Irrigation, Navigation, Embankment and Drainage Works for which Capital and Revenue Accounts are kept are classified into: (1) A. Irrigation Works; and (2) B. Navigation, Embankment and Drainage Works, each of these being subdivided into Productive and Unproductive works.

Every irrigation, navigation, embankment or drainage work for which a capital account is kept is classed as productive, if the net revenue anticipated at the end of ten years from the date of the closing of the construction estimate, appears likely to pay the annual interest charges on the capital invested (including direct and indirect charges and all arrears of simple interest), calculated at 4 per cent for works sanctioned before the 1st April 1919, at 5 per cent for those sanctioned between 1st April 1919 and 1st August 1921, and at 6 per cent for those sanctioned after the last mentioned date. If a work is not expected to yield such a return, it is classified as unproductive.

2. The following table summarizes the results of irrigation, etc., works during the year 1930-31 in comparison with those of the previous year 1929-30:—

(1)	Total capital invested (direct and indirect and all arrears of simple interest) to end of		Gross receipts (direct and indirect) during
	1930-31. (2)	1929-30. (3)	1930-31. (4)
	RS.	RS.	RS.
A. Irrigation works—			
1. Productive	13,46,87,822	12,24,31,052	1,30,07,355
2. Unproductive	8,90,54,632	8,78,83,254	8,11,774
B. Navigation, etc., works—			
2. Unproductive	2,96,91,467	2,91,87,470	1,06,068

	Gross receipts (direct and indirect) during	Working expenses (direct and indirect) during	
	1929-30. (5)	1930-31. (6)	1929-30. (7)
	RS.	RS.	RS.
A. Irrigation works—			
1. Productive	1,42,10,840	51,96,857	52,43,794
2. Unproductive	8,07,085	4,31,250	4,35,619
B. Navigation, etc., works—			
2. Unproductive	95,288	3,12,794	3,35,978

	Net revenue during		Percentage on capital invested.
	1930-31. (8)	1929-30. (9)	1930-31. (10)
	RS.	RS.	
A. Irrigation works—			
1. Productive	78,10,498	89,67,046	5.80
2. Unproductive	3,80,524	3,71,466	0.43
B. Navigation, etc., works—			
2. Unproductive	— 2,06,726	— 2,40,690	— 0.70

	Percentage on capital invested.
	1929-30. (11)
A. Irrigation works--	
1. Productive	7.32
2. Unproductive	0.42
B. Navigation, etc., works—	
2. Unproductive	— 0.82

A. IRRIGATION WORKS.

(1) *Productive.*

3. The number of productive works remained the same as last year, i.e., 28 of which items 1 to 25 of account No. 1 (General abstract) have been in operation for twelve years and over. The remaining three, viz., the Polavaram Island Project, the Cauvery Mettur Project and the Kattalai Scheme are still in progress.

4. During the year under review there was a fall in revenue of Rs. 12.03 lakhs and a decrease in the maintenance charges of .47 lakh as compared with the revenue and maintenance charges of last year.

(a) The marked fall in revenue is chiefly contributed by the Cauvery Delta in which there was a fall of 10·39 lakhs due to the grant of remissions on a very large scale in consequence of the floods of November 1930.

There was an increase in revenue in some of the systems, viz., Pennar, Shatiatope and Lower Coleroon Anicut, due to extension of cultivation, and in Palar and Poiney due to decrease in the amount of remissions granted. The net loss in this class of work was due to the decrease in the Cauvery Delta System for reasons referred to above and also in Godavari and Kistna Delta Systems to the extent of 1·93 and 1·64 lakhs respectively.

(b) The increase in the maintenance charges is due to the causes mentioned below against the systems concerned.

(i) *Ganjam Minor rivers*.—Extensive repairs on account of breaches caused by the heavy rains in June and July 1930.

(ii) *Godavari Delta*.—Purchase of two steamers and a motor launch, diversion of the Godavari right bank at Ubalanka and closing of breaches caused by the floods.

(iii) *Marudur Anicut*.—Execution of petty works and making up of the damage caused by the unusual rains in March 1930.

(iv) *Toludur Reservoir*.—Repairs to the damages caused to the Toludur regulator by the floods of May 1930, and special works carried out to prevent further damages.

(v) *Kattalai Anicut*.—Carrying out of improvements to the outlet in the left bank of the Mahadanapuram channel, etc., and repairs to the flood damages caused by the floods of October 1930.

The above increases were outweighed by the large decrease in the maintenance charges of the Periyar, Kistna Delta and Lower Coleroon Anicut Systems, thus resulting in a net decrease of the maintenance charges of the productive class of works as a whole.

(5) The systems bearing Nos. 1 to 24 in account No. 1 (General abstract) have been in operation for over 13 years since the dates of closure of the construction estimates. Of these items 3 to 7, 10, 11, 13, 14, 16 and 18 to 20 satisfy the test of productivity referred to in paragraph 1 ante; items 1, 2, 9, 12, 15 and 23 have failed to do so during only a portion of the triennium ending with 1930–31 and their retention under the productive category is justified with reference to rule 3-III of statement A of Appendix 4 to the Madras Public Works Account Code. The transfer of items 8 and 15 to the unproductive category will be given effect to in 1931–32 with reference to G.O. No. 1589 I. (Press), dated 16th

June 1931. Government have ordered the retention of item 21 under this class till the financial results on account of increase in the irrigable ayacut, as a result of the improvements being carried out, are known. As regards item 23, its removal to the unproductive class was proposed to be considered later, but the yield of the year under review is 6.41 per cent and has thus exceeded the prescribed minimum. The transfer of items 17, 22 and 24 to the unproductive class has been suggested to the Local Government for consideration.

(2) *Unproductive.*

(6) There are 27 systems of this class as in the last year. The increase in Revenue and decrease in working expenses as compared with those of last year are very negligible.

There was a fall in revenue in the following systems, viz, (1) Sagileru, (2) Siddapur tank, (3) Rushikulya systems, etc., due to decrease in the area under cultivation of second crop on single crop wet land in item 1 and scanty supplies during the year in the case of item 2, but this was more than counterbalanced by the increase in revenue in Muniyeru, Markapur, Mopad, Kocheruvu, etc., due to a larger area under cultivation than in previous years.

B. NAVIGATION, ETC., WORKS.

(7) There are three works of this class in the Presidency and all of them have been classed as 'Unproductive'. There was an increase in receipts by Rs. 10,780 in Ganjam-Gopalpur, and Buckingham canals and also a decrease in the maintenance charges of all the three systems as compared with those of last year.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1930-1931.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1930-1931.

Name of project.	ESTIMATED COST OF CONSTRUCTION.			Date of closure of construction estimate or in the case of works under construction date of sanction	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES.		
	Direct charges.	Indirect charges	Total.		During 1930-1931.		
					Direct charges.	Indirect charges.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	RS.	RS.	RS.		RS.	RS.	RS.
<i>A. Irrigation Works.</i>							
(1) Productive Works.							
1. Cauvery delta system.	73,75,310	2,54,786	76,30,096	31st March 1889 ..	2,68,540	3,677	2,72,217
2. Srivaikuntam anicut system.	16,67,459	1,07,604	17,75,063	Do. ..	..	..	..
3. Godavari delta system.	1,59,48,166	20,05,457	1,79,53,623	31st March 1890 ..	2,64,702	2,257	2,66,959
4. Mehamathur anicut system.	82,365	2,178	84,543	March 1891 ..	..	..	..
5. Thadapalle channel ..	1,66,383	11,063	1,77,446	1893	..	..	..
6. Kalingarayan channel.	1,75,980	4,506	1,80,486	1893	..	..	..
7. Vriddhachalam anicut system.	84,191	2,494	86,685	March 1893 ..	..	..	..
8. Pelandorai anicut system.	6,43,302	48,772	6,92,074	1893	..	..	..

9. Chembrambakkam tank.	6,51,348	1,12,795	7,64,143	31st March 1893 ..	..	..	..
10. Marudur anicut system.	58,721	1,401	60,122	1893 ..	..	..	..
11. Penner river canale system.	58,15,883	10,15,931	68,31,814	31st March 1894 ..	2,813	21	2,834
12. Arkenkota channel ..	1,40,769	3,676	1,44,445	Do. ..	..	..	..
13. Tirukkoyilur anicut system.	3,89,189	10,001	3,99,190	March 1895 ..	..	..	..
14. Sbatiatope anicut system.	10,18,814	57,414	10,76,228	31st March 1895 ..	1,998	15	2,013
15. Palar anicut system ..	23,48,880	1,17,306	24,66,186	31st March 1896 ..	49	..	49
16. Cheyyar anicut system.	5,19,869	14,678	5,34,547	Do. ..	753	6	759
17. Cumbum tank ..	83,985	2,388	86,373	Do. ..	..	..	..
18. Poiney anicut system.	2,95,106	8,812	3,03,918	1897 ..	..	..	..
19. Periyar system ..	1,05,45,772	3,71,641	1,09,17,413	31st March 1897 ..	5,827	43	5,870
20. Kistna delta system ..	1,83,94,197	11,43,846	1,95,38,043	31st March 1898 ..	47,289	357	47,646
21. Nandyar channel system.	63,231	2,484	65,715	1899 ..	..	..	..
22. Ganjam minor river system.	2,76,193	11,017	2,87,210	31st March 1900 ..	..	..	..
23. Lower Coleroon anicut system.	31,77,659	86,756	32,64,415	30th June 1903 ..	10,463	83	10,546
24. Divi pumping system.	25,99,167	61,533	26,60,700	31st October 1913 ..	21,473	162	21,635
25. Toludur reservoir project.	23,35,870	2,50,810	25,86,680	20th March 1918 ..	1,102	8	1,110
26. Polavaram Island project.	17,97,194	24,463	18,21,657	23rd April 1923 ..	40,713	731	41,444
27. Cauvery-Mettur Project.	7,23,11,000	13,97,000	7,37,08,000	15th June 1929 ..	92,71,667	1,31,104	94,02,771
28. Kattalai scheme ..	14,47,143	51,921	14,99,064	1st December 1926.	— 28,692	— 207	— 28,899
Total, A. Irrigation— (1) Productive.	15,04,13,146	71,82,733	15,75,95,879		99,08,697	1,38,257	1,00,46,954
(2) Unproductive Works.							
1. Kurnool-Cuddapah canal.	2,33,13,676	73,438	2,33,87,114	Not known ..	..	..	..
2. Barur tank ..	4,19,375	23,738	4,43,113	31st March 1891 ..	..	..	..
3. Vallur anicut ..	74,366	1,916	76,282	31st March 1893 ..	..	..	..

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1930-1931—*cont.*

Name of project.	ESTIMATED COST OF CONSTRUCTION.			Date of closure of construction estimate or in the case of works under construction date of sanction.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES.		
	Direct charges	Indirect charges.	Total.		During 1930-1931.		
					Direct charges.	Indirect charges.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT—cont.	RS.	RS.	RS.		RS.	RS.	RS.
A. Irrigation Works—cont.							
(2) Unproductive Works—cont.							
4. Madras Water-supply and Irrigation system.	17,02,161	2,40,622	19,42,783	1893'	— 1,788	— 15	— 1,803
5. Rushikulya system	52,01,664	4,18,059	56,19,723	31st March 1901	1,22,406	964	1,23,370
6. Muniyeru system	5,71,308	29,761	6,01,059	1901-02	..	..	..
7. Dondapad tank	1,24,786	15,218	1,40,004	31st March 1903	..	..	..
8. Yerur tank	61,741	1,612	63,353	31st March 1907	..	..	..
9. Sagilleru tank	4,47,108	17,619	4,64,727	Do.	..	..	..
10. Atmakur tank	1,09,951	13,428	1,23,379	Do.	..	..	..
11. Jangamaheswarapuram tank.	61,253	10,411	71,664	31st March 1908	..	..	..
12. Anamasamudram-Beraperu tank.	71,687	1,886	73,573	31st March 1910	..	..	..
13. Hajipuram tank	2,78,774	33,109	3,11,883	31st March 1911	..	..	..
14. Ponnalur tank	1,92,975	25,674	2,18,649	Do.	..	..	..
15. Markapur tank	1,24,481	4,859	1,29,340	31st March 1911	..	..	..
16. Nagavalli river system ..	16,87,069	42,372	17,29,441	31st December 1913 ..	1,320	10	1,330

17. Venkatapuram tank ..	3,72,250	12,671	3,84,921	31st March 1918 ..	..	..	..	..
18. Bhavanasi tank ..	2,54,395	11,096	2,65,491	31st March 1919 ..	..	..	..	..
19. Yellanur tank ..	2,39,192	30,515	2,69,707	Do. ..	..	..	..	..
20. Kocheruvu tank ..	1,24,605	11,129	1,35,734	Do. ..	..	..	..	..
21. Panjapatti reservoir ..	3,27,781	11,495	3,39,276	30th June 1919 ..	..	..	..	..
22. Siddapur tank ..	7,91,038	13,448	8,04,486	31st October 1919 ..	..	..	..	..
23. Nagavaram anicut and supply channel.	1,07,295	2,595	1,09,890	31st December 1919 ..	..	..	..	..
24. Mopad reservoir system ..	21,93,275	96,422	22,89,697	30th April 1921 ..	..	..	..	..
25. Kanniampalaiyam anicut..	1,17,841	3,853	1,21,694	31st March 1922 ..	..	— 3,540	..	— 3,540
26. Thippayapalem project ..	2,87,020	32,170	3,19,190	4th February 1924 ..	..	— 37	2	— 35
27. Basavannah channel ..	5,44,749	5,580	5,50,329	19th December 1924 ..	..	87,449	732	88,181
Total, A. Irrigation—(2) Unproductive.	3,98,01,816	11,84,686	4,09,86,502			2,05,810	1,693	2,07,503
Total, A. Irrigation Works ..	19,02,14,962	83,67,419	19,85,82,381			1,01,14,507	1,39,950	1,02,54,457
<i>B. Navigation, Embankment and Drainage Works.</i>								
(2) Unproductive.								
1. Ganjam-Gopalpur canal ..	1,43,100	12,393	1,55,493	1893 ..	..	..	..	..
2. Vedaranniyam canal ..	1,32,699	3,733	1,36,432	1893 ..	..	..	..	..
3. Buckingham canal ..	85,93,519	4,89,468	90,82,987	March 1897 ..	..	1,738	14	1,752
Total, (2) Unproductive Works.	88,69,318	5,05,594	93,74,912			1,738	14	1,752
Total, B. Navigation, etc., Works.	88,69,318	5,05,594	93,74,912			1,738	14	1,752
Total, Construction of Irrigation, etc., Works.	19,90,84,280	88,73,013	20,79,57,293			1,01,16,245	1,39,964	1,02,56,209

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1930-1931—*cont.*

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES.			Accumulated arrears of simple interest to end of the year.	Total capital invested to end of the year [columns (11) + (12)].	GROSS RECEIPTS DURING THE YEAR 1930-1931.			WORKING EXPENSES AND MAIN- TENANCE DURING 1930-1931 INCLUSIVE OF INDIRECT CHARGES.		
	To end of 1930-1931.					Direct receipts.	Portion of land revenue due to works, etc.	Total.	Direct charges.	Indirect charges.	Total.
	Direct charges.	Indirect charges.	Total.								
	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
<i>A. Irrigation Works.</i>											
(1) Productive Works.											
1. Cauvery delta system.	71,13,559	2,55,978	73,69,537	..	73,69,537	7,14,649	1,23,984	8,38,633	9,50,536	8,115	9,58,651
2. Srivaikuntam anicut system.	16,67,459	1,07,604	17,75,063	..	17,75,063	1,62,680	1,490	1,64,170	75,966	673	76,639
3. Godavari delta system.	1,56,18,439	20,47,585	1,76,66,024	..	1,76,66,024	39,87,561	2,24,272	42,11,833	14,47,554	9,461	14,57,015
4. Mehamathur anicut system.	73,372	2,009	75,381	..	75,381	21,058	184	21,242	5,760	32	5,792
5. Thadapalle channel ..	1,66,383	11,063	1,77,446	..	1,77,446	64,865	2,929	67,794	25,477	171	25,648
6. Kalingarayan channel.	1,75,980	4,506	1,80,486	..	1,80,486	47,628	483	48,111	16,219	107	16,326
7. Vriddhachalam anicut system.	84,191	2,494	86,685	..	86,685	33,344	339	33,683	14,034	86	14,120
8. Pelandorai anicut system.	6,43,302	48,772	6,92,074	4,81,339	11,73,413	58,029	86	58,115	23,128	164	26,292

9. Chembrambakkam tank.	6,51,348	1,12,795	7,64,143	..	7,64,143	40,246	957	41,203	12,582	86	12,668
10. Marudur anicut system.	58,721	1,401	60,122	..	60,122	96,742	279	97,021	42,587	275	42,862
11. Pennar river canals system.	57,60,859	10,14,718	67,75,577	..	67,75,577	6,36,377	66,937	7,03,314	1,29,426	654	1,30,080
12. Arkenkota channel ..	1,40,769	3,676	1,44,445	..	1,44,445	19,835	428	20,263	6,348	40	6,388
13. Tirukkoyilur anicut system.	3,89,189	10,001	3,99,190	..	3,99,190	78,576	3,369	81,945	26,796	161	26,957
14. Shattiatope anicut system.	10,18,565	59,151	10,77,716	..	10,77,716	1,45,014	17,031	1,62,045	31,654	150	31,804
15. Palar anicut system ..	23,48,502	1,17,304	24,65,808	3,25,399	27,91,205	2,30,349	16,842	2,47,191	83,469	637	84,106
16. Cheyyar anicut system.	5,21,242	15,173	5,36,415	..	5,36,415	74,721	4,735	79,456	48,091	345	48,436
17. Cumbam tank ..	83,985	2,388	86,373	..	86,373	— 10,980	461	— 10,519	1,423	15	1,438
18. Poiney anicut system.	2,95,106	8,812	3,03,918	..	3,03,918	86,386	5,462	91,848	18,485	104	18,589
19. Periyar system ..	1,04,32,769	3,70,787	1,08,03,556	..	1,08,03,556	7,80,553	24,686	8,75,239	3,07,714	1,909	3,09,623
20. Kistna delta system ..	1,81,65,221	11,43,138	1,93,08,359	..	1,93,08,359	39,81,061	1,88,314	41,69,275	12,30,956	8,643	12,39,699
21. Nandyar channel system.	63,231	2,484	65,715	42,684	1,08,399	12,842	76	12,918	8,158	60	9,218
22. Ganjam minor river system.	2,76,193	11,017	2,87,210	..	2,87,210	56,830	7,800	64,630	92,905	690	93,595
23. Lower Coleroon anicut system.	31,52,419	89,984	32,42,403	..	32,42,403	4,04,583	51,515	4,56,098	2,46,736	1,614	2,48,350
24. Divi pumping system.	25,89,259	61,621	26,50,880	3,47,512	29,98,392	1,73,304	87,205	2,60,509	1,63,321	1,135	1,64,456
25. Toludur reservoir project.	23,35,870	2,50,810	25,86,680	9,37,715	35,24,395	1,17,358	448	1,17,806	54,754	353	55,107
26. Polavaram Island project.	15,19,376	25,079	15,44,455	1,06,975	16,61,430	1,06,570	..	1,06,570	12,242	45	12,287
27. Cauvery-Mettur Project.	4,34,29,112	8,20,594	4,42,49,706	55,47,380	4,97,97,086	..	..	..	..	..	..
28. Kattalai scheme ..	11,45,542	33,035	11,78,577	3,44,876	15,23,453	— 13,153	15	— 13,138	80,229	582	80,811
Total, A. Irrigation—	11,92,10,963	66,33,979	12,05,53,942	81,33,880	13,46,87,822	1,21,07,028	9,00,327	1,30,07,355	51,60,550	36,807	51,96,857
(1) Productive.											
(2) Unproductive Works.											
1. Kurnool-Cuddapah canal.	2,33,13,676	73,438	2,33,87,114	3,86,12,358	5,99,99,472	3,24,919	2,550	3,27,469	1,48,739	1,035	1,49,774
2. Barur tank ..	4,19,375	23,738	4,43,113	3,80,437	8,23,550	19,966	758	20,724	10,489	74	10,563
3. Vallur anicut ..	74,366	1,916	76,282	18,250	94,532	2,638	1,074	3,712	804	4	808

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FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of those works for and to end of 1930-1931—*cont.*

Name of project.	CAPITAL OUTLAY INCLUSIVE OF INDIRECT CHARGES.			Accumulated arrears of simple interest to end of the year.	Total capital invested to end of the year [columns (11) + (12)].	GROSS RECEIPTS DURING THE YEAR 1930-1931.			WORKING EXPENSES AND MAIN- TENANCE DURING 1930-1931 INCLUSIVE OF INDIRECT CHARGES.		
	To end of 1930-1931.					Direct receipts.	Portion of land revenue due to works, etc.	Total.	Direct charges.	Indirect charges.	Total.
	Direct charges. (9)	Indirect charges. (10)	Total. (11)								
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT —cont.											
A. Irrigation Works —cont.											
(2) Unproductive Works —cont.											
4. Madras Water-supply and Irrigation system.	16,18,658	2,39,967	18,58,625	26,61,296	45,19,921	56,882	462	57,344	16,962	133	17,095
5. Rushikulya system ..	49,81,590	4,19,141	54,00,731	40,55,950	94,56,681	1,87,498	6,002	1,93,500	1,73,868	1,237	1,75,105
6. Muniyeru system ..	5,71,208	29,751	6,01,059	3,56,115	9,57,174	36,080	60	36,140	12,255	72	12,327
7. Dondapad tank ..	1,24,786	15,218	1,40,004	1,58,195	2,98,199	636	10	646	66	..	66
8. Yerur tank ..	61,741	1,612	63,353	31,523	94,876	3,675	86	3,761	614	2	616
9. Sagileru system ..	4,47,108	17,619	4,64,727	5,86,010	10,50,737	553	26	579	4,938	41	4,979
10. Atmakur tank ..	1,09,951	13,428	1,23,379	76,674	2,00,053	2,974	..	2,974	259	..	259
11. Jangamaheswara- puram tank.	61,253	10,411	71,664	46,926	1,18,590	825	..	825	82	..	82
12. Anamasamudram- Beraperu tank.	71,687	1,886	73,573	58,720	1,32,293	1,972	1	1,973	— 740	— 6	— 746
13. Hajipuram tank ..	2,78,774	32,109	3,11,883	1,92,476	5,04,359	3,196	15	3,211	1,971	13	1,984
14. Ponnalur tank ..	1,92,975	25,674	2,18,649	1,78,493	3,97,142	5,424	..	5,424	1,974	12	1,986

15. Markapur tank ..	1,24,481	4,859	1,29,340	70,815	2,00,155	4,852	1	4,853	2,110	14	2,124
16. Nagavalli river system.	16,81,776	42,332	17,24,108	4,02,936	21,27,044	67,377	21,214	88,591	24,825	150	24,975
17. Venkatapuram tank.	3,72,250	12,671	3,84,921	2,44,240	6,29,161	758	23	781	437	3	440
18. Bhavanasi tank ..	2,54,395	11,096	2,65,491	1,51,987	4,17,478	5,240	..	5,240	2,575	17	2,592
19. Yellanur tank ..	2,39,192	30,515	2,69,707	1,31,621	4,01,328	3,096	1,104	4,200	546	2	548
20. Kocheruvu tank ..	1,24,605	11,129	1,35,734	99,578	2,35,312	14	9	28	208	2	210
21. Panjapatti reservoir ..	3,27,781	11,495	3,39,276	1,83,728	5,23,004	228	595	823	1,564	11	1,575
22. Siddapur tank ..	7,91,038	13,448	8,04,486	4,72,982	12,77,468	186	..	186	847	7	854
23. Nagavaram anicut and supply channel.	1,07,295	2,595	1,09,890	48,098	1,57,988	1,781	146	1,927	117	..	117
24. Mopad reservoir system.	21,93,275	96,422	22,89,697	12,70,234	35,59,931	37,731	5,137	42,868	16,467	106	16,573
25. Kanniyampalaiyam anicut.	1,17,841	3,853	1,21,694	81,655	2,03,349	4,000	..	4,000	6,294	50	6,344
26. Thippayapalem project.	69,805	7,824	77,629	22,319	99,948	..	..	..	..	..	..
27. Basavannah channel.	5,02,489	5,910	5,08,399	70,488	5,78,887	..	..	..	..	..	..
Total, A. Irrigation— (2) Unproductive.	3,92,33,471	11,61,057	4,03,94,528	4,86,64,104	8,90,58,632	7,72,501	39,273	8,11,774	4,28,271	2,979	4,31,250
Total, A. Irrigation Works.	15,91,53,434	77,95,036	16,69,48,470	5,67,97,984	22,37,46,454	1,28,79,529	9,39,600	1,38,19,129	55,82,821	39,286	56,28,107
<i>B. Navigation, Embankment and Drainage Works.</i>											
(2) Unproductive.											
1. Ganjam-Gopalpur canal.	1,43,100	12,393	1,55,493	2,15,070	3,70,563	7,088	..	7,088	153	1	154
2. Vedaranniyam canal ..	1,32,699	3,733	1,36,432	5,88,590	7,25,022	1,001	..	1,001	1,460	11	1,471
3. Buckingham canal ..	85,76,069	4,89,336	90,65,405	1,95,30,477	2,85,95,882	97,979	..	97,979	3,08,647	2,522	3,11,169
Total, (2) Unproductive Works.	88,51,868	5,05,462	93,57,330	2,03,34,137	2,96,91,467	1,06,068	..	1,06,068	3,10,260	2,534	3,12,794
Total, B. Navigation, etc., Works.	88,51,868	5,05,462	93,57,330	2,03,34,137	2,96,91,467	1,06,068	..	1,06,068	3,10,260	2,534	3,12,794
Total, Construction of Irrigation, etc., Works.	16,80,05,302	83,00,498	17,63,05,800	7,71,32,121	25,34,37,921	1,29,85,597	9,39,600	1,39,25,197	58,99,081	41,820	59,40,901

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of these works for and to end of 1930-1931—*cont.*

Name of project.	NET REVENUE.		PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1930-1931.	Net gain.	Net loss.	PERCENTAGE OF NET REVENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].			of rate of interest as test of productivity.
	Surplus (+). (20)	Deficit (-). (21)	Gain. (22)	Loss. (23)				During 1928-29. (27)	During 1929-30. (28)	During 1930-31. (29)	
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT.	RS.	RS.			RS.	RS.	RS.				
<i>A. Irrigation Works.</i>											
(1) Productive Works.											
1. Cauvery delta system.	..	1,20,018	..	1.63	2,92,200	..	4,12,218	10.46	12.91	— 1.63	4 per cent (in the case of works sanctioned before 1st April 1919).
2. Sriyaikuntam anicut system.	87,531	..	4.93	..	56,813	30,718	..	1.55	4.19	4.93	
3. Godavari delta system	27,54,818	..	15.59	..	5,67,767	21,87,051	..	18.46	17.39	15.59	
4. Meliamathur anicut system.	15,450	..	20.50	..	2,495	12,955	..	17.40	16.25	20.50	
5. Thadapalle channel ..	42,146	..	23.75	..	5,567	36,579	..	26.83	23.30	23.75	
6. Kalingarayan channel	31,785	..	17.61	..	5,852	25,933	..	21.25	20.51	17.61	
7. Vriddhachalam anicut system.	19,563	..	22.57	..	2,799	16,764	..	17.56	18.80	22.57	
8. Pelandorai anicut system.	31,823	..	4.60	..	22,073	9,750	..	2.71	2.52	2.71	

9. Chembrambakkam tank	28,535	..	3-73	..	21,914	6,621	..	4-55	4-23	3-73
10. Marudur anicut system.	54,159	..	90-08	..	2,125	52,034	..	45-01	143-54	90-08
11. Penner river canals system.	5,73,234	..	8-46	..	1,92,924	3,80,310	..	7-38	7-66	8-46
12. Arkenkota channel ..	13,875	..	9-61	..	4,681	9,194	..	— 0-05	10-18	9-61
13. Tirukkoyilur anicut system.	54,988	..	13-77	..	13,415	41,573	..	11-44	11-56	13-77
14. Sthiatope anicut system.	1,30,241	..	12-08	..	36,001	94,240	..	10-63	10-86	12-08
15. Palur anicut system..	1,63,085	..	6-61	..	78,627	84,458	..	3-41	2-68	5-84
16. Cheyyar do. ..	31,020	..	5-78	..	19,333	11,687	..	11-93	9-38	5-78
17. Cumbum tank ..	..	11,957	..	13-84	2,793	..	14,750	— 4-24	— 22-77	— 13-84
18. Poiney anicut system.	73,259	..	24-10	..	11,023	62,236	..	10-47	10-27	24-10
19. Periyar system ..	5,65,616	..	5-24	..	3,49,684	2,15,932	..	4-91	4-74	5-24
20. Kistna delta system..	29,29,776	..	15-17	..	6,64,268	22,65,508	..	14-25	15-18	15-17
21. Nandjar channel system.	3,700	..	5-63	..	2,136	1,564	..	3-04	— 2-49	3-41
22. Ganjam minor river system.	..	28,965	..	10-08	9,565	..	38,530	3-11	2-11	— 10-08
23. Lower Coleroon anicut system.	2,07,748	..	6-41	..	1,31,669	76,079	..	3-97	3-91	6-41
24. Divi pumping system.	96,053	..	3-62	..	1,00,036	..	4,033	2-60	3-22	3-20
25. Toludur reservoir project.	62,699	..	2-42	..	1,09,552	..	46,853	0-27	2-43	1-78
26. Polavaram Island project	94,283	..	6-10	..	81,547	12,736	..	..	4-68	5-71
27. Cauvery-Mettur project.	..	..	..	..	21,10,391	..	21,10,391	..	..	..
28. Kattalai scheme ..	..	93,949	..	7-97	63,098	..	1,57,047	..	2-71	— 6-17
Total, A. Irrigation— (1) Productive.	78,10,498	..	6-17	..	49,60,398	28,50,100	..	7-63	7-32	5-80
(2) Unproductive Works.										
1. Kurnool-Cuddapah canal.	1,77,695	..	0-76	..	7,84,643	..	6,06,948	0-28	0-30	0-30
2. Barur tank	10,161	..	2-29	..	13,945	..	3,784	1-45	1-39	1-23
3. Vallur anicut ..	2,904	..	3-81	..	2,700	204	..	4-51	4-09	3-07

No. 1.—General Abstract of Financial Results showing the estimated cost of construction of Productive and Unproductive Works, the Capital outlay thereon, the Revenue derived therefrom, the Working Expenses and the interest on the debt incurred in respect of these works for and to end of 1930-31—*cont.*

Name of project.	NET REVENUE.		PERCENTAGE ON CAPITAL OUTLAY [COLUMN (11)].		Simple interest during 1930-1931.	Net gain.	Net loss.	PERCENTAGE OF NET REVENUE [COLUMNS (20) AND (21) ON CAPITAL INVESTED COLUMN (13)].			Prescribed rate of interest as test of productivity.
	(Surplus (+). (20)	Deficit (-). (21)	Gain. (22)	Loss. (23)				During 1928-29. (27)	During 1929-30. (28)	During 1930-31. (29)	
WORKS FOR WHICH BOTH CAPITAL AND REVENUE ACCOUNTS ARE KEPT — <i>cont.</i>	RS.	RS.			RS.	RS.	RS.				
<i>A. Irrigation Works</i> — <i>cont.</i>											
(2) Unproductive Works — <i>cont.</i>											
4. Madras Water-supply and Irrigation works.	40,249	..	2.17	..	55,395	..	15,146	0.46	0.85	0.89	4 per cent (in the case of works sanctioned before 1st April 1919)
5. Rushikulya system ..	18,395	..	0.34	..	1,68,822	..	1,50,427	0.44	0.32	0.19	
6. Muniyeru system ..	23,813	..	3.96	..	19,046	4.767	..	2.08	2.53	2.49	
7. Dondapad tank ..	580	..	0.41	..	4,149	..	3,569	0.29	0.23	0.19	
8. Yerur tank ..	3,145	..	4.96	..	2,053	1,092	..	0.39	3.33	3.31	
9. Sagileru system ..	..	4,400	..	0.95	14,867	..	19,267	—	0.50	—	
10. Atmakur tank ..	2,715	..	2.20	..	3,656	..	941	1.38	—	1.36	
11. Jangamaheswara-puran tank.	743	..	1.04	..	2,039	..	1,296	0.86	—	0.63	
12. Anamasamudram-Beraperu tank.	2,719	..	3.70	..	2,384	335	..	—	1.16	—	
13. Hajipuram tank ..	1,227	..	0.39	..	9,270	..	8,043	0.43	0.66	0.24	
14. Ponualur tank ..	3,438	..	1.57	..	6,980	..	3,542	0.41	0.39	0.87	

15. Markapur tank ..	2,729	..	2.11	..	4,305	..	1,576	—	1.93	—	2.19	1.36
16. Nagavalli river system.	63,616	..	3.69	..	56,864	6,752	..	—	2.95	—	2.96	2.99
17. Venkatapuram tank.	341	..	0.09	..	12,933	..	12,592	—	0.04	—	0.04	0.05
18. Bhavanasi tank ..	2,648	..	1.00	..	10,060	..	7,412	—	0.65	—	0.94	0.63
19. Yellanur tank ..	3,652	..	1.35	..	8,338	..	4,686	—	0.52	—	0.73	0.91
20. Kocheruvu tank ..	..	187	..	0.14	4,330	..	4,517	—	0.15	—	0.45	— 0.08
21. Panjapatti reservoir.	..	752	..	0.22	12,532	..	13,284	—	0.20	—	0.39	— 0.14
22. Siddapur tank ..	..	668	..	0.08	26,391	..	27,059	—	1.11	—	0.28	— 0.05
23. Nagavaram anicut and supply channel.	1,810	..	1.65	..	3,568	..	1,758	—	0.11	—	0.35	1.15
24. Mopad reservoir system.	26,295	..	1.15	..	84,468	..	58,173	—	0.25	—	0.31	0.74
25. Kanniyampalaiyam anicut.	..	2,344	..	1.93	5,906	..	8,250	—	0.06	—	0.77	— 1.15
26. Thippayapalem project.	..	..	..	..	3,798	..	3,798	..	..	..	..	..
27. Basavannah channel.	..	..	..	..	24,957	..	24,957	..	..	..	..	..
Total, A. Irrigation— (2) Unproductive.	3,80,524	..	0.94	..	13,48,399	..	9,67,875	—	0.38	—	0.42	0.43
Total, A. Irrigation Works.	81,91,022	..	4.91	..	63,08,797	18,82,225	..	—	4.44	—	4.44	3.66
<i>B. Navigation, Embankment and Drainage Works.</i>												
(2) Unproductive.												
1. Ganjam-Gopalpur canal.	6,934	..	4.46	..	4,758	2,176	..	—	0.04	—	1.55	1.87
2. Vedaranniyam canal.	..	470	..	0.34	4,412	..	4,882	—	1.51	—	0.90	— 0.06
3. Buckingham canal ..	..	2,13,190	..	2.35	2,86,349	..	4,99,539	—	0.93	—	0.85	— 0.75
Total, (2) Unproductive Works.	..	2,06,726	..	2.21	2,95,519	..	5,02,245	—	0.96	—	0.82	— 0.70
Total, B. Navigation, etc., Works.	..	2,06,726	..	2.21	2,95,519	..	5,02,245	—	0.96	—	0.82	— 0.70
Total, Construction of Irrigation, etc., Works.	79,84,296	..	4.53	..	66,04,316	13,79,980	..	—	3.75	—	3.80	3.15

CAUVERY DELTA SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	21,133	..	21,133	21,133	21,133
C. Works	18,56,086	— 35,024	18,21,062	18,21,062	18,21,062
K. Buildings	13,784	..	13,784	13,784	13,784
L. Earthwork	8,163	..	8,163	8,163	8,163
O. Miscellaneous	12,791	..	12,791	12,791	12,791
Total ..	19,11,957	— 35,024	18,76,933	18,76,933	18,76,933
(2) <i>Main Canals and Branches—</i>					
B. Land	99,701	2,939	1,02,640	1,08,832	85,832
C. Works	28,852	— 28,852	..	..	..
D. Regulators	9,45,500	3,760	9,49,260	9,52,686	9,31,146
F. (1) Other cross drainage works.	78,743	1,561	80,304	73,941	32,591
H. Escapes	27,182	414	27,596	26,245	14,635
K. Buildings	26,784	..	26,784	26,784	26,784
L. Earthwork	79,930	5,633	85,563	88,110	74,541
O. Miscellaneous	3,476	3,079	6,555	6,691	693
Total ..	12,90,168	— 11,466	12,78,702	12,83,289	11,66,222
(3) <i>Distributaries—</i>					
B. Land	44,448	4,163	48,611	47,350	42,150
C. Works	1,66,655	142	1,66,797	1,65,754	1,61,094
L. Earthwork	37,027	1,420	38,447	41,092	36,952
O. Miscellaneous	— 22	..	— 22	— 22	— 22
Total ..	2,48,108	5,725	2,53,833	2,54,174	2,40,174
(4) <i>Drainage and Protective Works—</i>					
A. Preliminary expenses.	..	..	..	1,260	..
B. Land	1,40,774	14,371	1,55,145	1,99,902	1,29,922
C. Works	5,42,056	1,89,904	7,31,960	6,70,091	4,53,826
D. Regulators	23,148	4,092	27,240	32,535	..
F. (1) Other cross drainage works.	..	..	..	28,800	..
G. Bridges	2,608	1,944	4,552	84,260	..
L. Earthwork	4,63,354	50,654	5,14,008	5,70,443	4,27,540
O. Miscellaneous	48,041	..	48,041	67,522	47,070
Total ..	12,19,981	2,60,965	14,80,946	16,64,813	10,58,358
(5) <i>Special tools and plant</i> ..	1,23,332	..	1,23,332	1,23,332	1,23,332
Provision for unforeseen works.	..	..	..	..	..
Total outlay ..	47,93,546	2,20,200	50,13,746	51,92,541	44,65,019
Old outlay	7,76,216	..	7,76,216	7,76,216	7,76,216
Total, Works ..	55,69,762	2,20,200	57,89,962	59,68,757	52,41,235

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

CAUVERY DELTA SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
II. ESTABLISHMENT—	RS.	RS.	RS.	RS.	RS.
Non-voted—					
Pay of officers	55,180	..	55,180	..	..
Passage pay	2,729	..	2,729	..	..
Travelling allowance ..	4,275	..	4,275	..	..
Voted—					
Pay of officers	38,448	..	38,448	..	..
Pay of establishment (temporary).	99,455	..	99,455	..	..
Travelling allowance ..	19,992	..	19,992	..	..
Fixed travelling allowance.	8,443	..	8,443	..	..
Other compensatory allowance.	535	..	535	..	..
Contingencies	3,021	..	3,021	..	..
Non-contract contingencies—Miscellaneous.	6,168	..	6,168	..	..
Total ..	2,38,246	..	2,38,246	..	..
English cost of Establishment—Par value.	7,200	..	7,200	..	..
Loss by exchange ..	2,405	..	2,405	..	..
Deduct—Charges debited to other heads of account.	1,23,938	..	1,23,938	..	..
Add—Amount debited by Transferred establishment.	10,09,224	28,263	10,37,487	..	..
„ Pensionary charges ..	20,113	3,957	24,070	..	..
„ Amount debited by Mettur ..	..	15,203	15,203	..	..
„ Amount debited by Pensionary charges.	..	2,128	2,128	..	..
Net total, Establishment ..	11,53,250	49,551	12,02,801	12,79,731	10,74,132
III. TOOLS AND PLANT—					
New supplies—					
Scientific instruments and drawing materials.	2,449	..	2,449	..	..
Plant and Machinery ..	21,776	..	21,776	..	..
Tools	1,269	..	1,269	..	..
Office furniture	2,235	..	2,235	..	..
Camp equipage	290	..	290	..	..
Repairs and carriage ..	1,325	..	1,325	..	..
	29,344	..	29,344	..	..
Deduct—Charges debited to other heads of account.	6,450	..	6,450	..	..
Add—Amount debited by Transferred.	1,05,875	577	1,06,452	..	..
„ Amount debited by Mettur.	..	1,823	1,823	..	..
Net total, Tools and Plant ..	1,28,769	2,400	1,31,169	1,37,195	1,23,007
IV. SUSPENSE	— 1	..	— 1	— 1	— 1
Grand Total ..	68,51,780	2,72,151	71,23,931	73,85,682	64,38,373

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CAUVERY DELTA SYSTEM—*Canal Project*—cont.No. 2.—Capital Account for and to end of 1930-1931—*cont.*

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
V. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT.	6,761	3,611	10,372	10,372	10,372
Net total outlay in India and England.	68,45,019	2,68,540	71,13,559	73,75,310	64,28,001
<i>Add</i> —Loss by exchange ..	2,405	..	2,405	2,405	2,405
<i>Deduct</i> —Establishment charges incurred in England.	9,605	..	9,605	9,605	9,605
Net outlay in India ..	68,37,819	2,68,540	71,06,359	73,68,110	64,20,801
Chargeable to 49. Irrigation Works.	43,53,369	..	43,53,369	..	..
Chargeable to 55-A. Irrigation Works—1. Productive.	24,91,650	2,68,540	27,60,190	..	..
Total ..	68,45,019	2,68,540	71,13,559	..	..

Canvery Delta System—Canal Project—No. 3—Revenue Account
for and to end of 1930-1931.

CAUVERY DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Sales of water ..	5,744	1,107	6,851	(1) Head works	2,88,271	40,431	3,28,702
5. Receipts from plantations.	2,08,072	6,982	2,10,054	(2) Main canals and branches	8,11,544	75,894	8,87,438
6. Receipts from other canal produce.	1,31,592	2,593	1,34,185	(3) Distributaries	7,82,432	14,031	7,96,463
9. Rents of buildings.	18,373	974	19,347	(4) Drainage and protective works	2,93,703	14,402	3,08,105
10. Fines	291	..	291	(5) Special tools and plant	3,572	..	3,572
11. Miscellaneous Recoveries of expenditure.	80,827	2,774	83,601	Add—Unclassifiable outlay	35,651	..	35,651
Deduct—Refunds ..	2,641	383	3,024	Total ..	22,15,173	1,44,758	23,59,931
Total, Revenue realized in Public Works Department.	4,37,258	15,140	4,52,398	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department.	5,39,83,051	6,99,509	5,46,82,560	(1) Head works	6,45,144	8,311	6,53,455
Total, Direct Receipts ..	5,44,20,309	714,649	5,51,34,958	(2) Main canals and branches	57,58,585	5,19,643	62,78,228
				(3) Distributaries	24,59,068	56,704	25,15,772
				(4) Drainage and protective works	11,69,913	41,406	12,11,319
				(5) Special tools and plant	1,800	..	1,800
				Add—Unclassifiable outlay	36,27,372	..	36,27,372
				Total ..	1,36,61,882	6,26,064	1,42,87,946
				Total, Extensions and Improvements and Maintenance and Repairs.	1,58,77,055	7,70,822	1,66,47,877
				IV. ESTABLISHMENT	57,58,349	2,74,635	60,32,984
				V. TOOLS AND PLANT	2,00,584	4,696	2,05,280
				VI. REFUNDS OF REVENUE	1,919	..	1,919
				Deduct—Recoveries on Revenue account ..	4,921	..	4,921
				Total, Direct charges ..	2,18,32,986	10,50,153	2,28,83,139

II. INDIRECT RECEIPTS—

II. INDIRECT RECEIPTS—							
Share of land revenue collected in the Civil Department.	89,33,608	1,23,984	90,57,592	Share of collection charges in the Civil Department	34,88,504	41,156	35,29,660
				Indirect charges	8,73,476	9,171	8,82,647
Total, Public Works and Civil Departments, Revenue.	6,33,53,917	8,38,633	6,41,92,550	Total, Direct and Indirect charges ..	2,61,94,966	11,00,480	2,72,95,446
				* Deduct—Old maintenance charges saved to Government	1,30,23,681	1,41,829	1,31,65,510
				Net Total ..	1,31,71,285	9,58,651	1,41,29,936
				Balance, Net revenue ..	5,01,82,632	— 1,20,018	5,00,62,614
Total, Receipts ..	6,33,53,917	8,38,633	6,41,92,550	Grand Total ..	6,33,53,917	8,38,633	6,41,92,550

18.

a Direct—							
Maintenance and Repairs	..	..	..	..	..	..	1,05,634
Establishment	..	..	..	..	..	..	34,521
Tools and Plant	..	..	..	..	..	..	618
Total, Direct							1,40,773
Indirect	..	..	..	..	..	..	1,056
Total, Direct and Indirect							1,41,829

CAUVERY DELTA SYSTEM—*Canal Project*—cont..

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	66,55,869	Net revenue realized to end of 1929-1930	5,01,82,632
Total interest charges for the year 1930-1931	* 2,92,200	Net revenue realized during 1930-1931	— 1,20,018
Balance net revenue	4,31,14,545		
Total ..	5,00,62,614	Total ..	5,00,62,614

	RS.
* Interest at 3.3252 per cent on the outlay to end of 1916-17.	1,37,539
Interest from 1917-18 to end of 1929-30 plus half the outlay during 1930-31, viz., 28,48,395 at 5.44 per cent	1,64,661
Total ..	2,92,200

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue	83,722	1,475	85,197
Leave and pension allowances	1,47,934	..	1,47,934
Audit and accounts	20,645	2,202	22,847
Total ..	2,52,301	3,677	2,55,978
Revenue—			
Capitalization of abatement of land revenue	18,703	1,656	20,359
Leave and pension allowances	7,94,051	..	7,94,051
Audit and accounts	60,722	7,515	68,237
Total ..	8,73,476	9,171	8,82,647
Grand Total ..	11,25,777	12,848	11,38,625

Cauvery Delta System—Canal Project—No. 6—Statement comparing
Charges to date with Sanctioned Estimates.

CAUVERY DELTA SYSTEM—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	13,07,547	39,33,688	52,41,235	5,48,727	7,27,522	1,78,795	57,89,962	....	..
Establishment ..	3,07,377	7,66,755	10,74,132	1,28,669	2,05,599	76,930	12,02,801	....	..
Tools and plant ..	40,659	82,348	1,23,007	8,162	14,188	6,026	1,31,169	....	..
Suspense account ..	..	-- 1	-- 1	..	..	..	-- 1	....	..
Total ..	16,55,583	47,82,790	64,38,373	6,85,558	9,47,309	2,61,751	71,23,931	....	..
Less—Receipts on Capital account.	1,985	8,387	10,372	..	..	..	10,372	....	..
Net Total—Outlay in India and England.	16,53,598	47,74,403	64,28,001	6,85,558	9,47,309	2,61,751	71,13,559	....	..

<i>Add</i> —Loss by exchange.	..	2,405	2,405	..	..	..	2,405	S.E. Canal, Mettur C.R. No. 27 of January 1927.	23,000
<i>Deduct</i> —Establishment charges incurred in England.	..	9,605	9,605	..	..	..	9,605	S.E. Tanjore, C.R. No. 1 of April 1927.	7,900
								S.E. Tanjore, C.R. No. 22 of February 1928.	2,675
								S.E. Tanjore, C.R. No. 31 of March 1928.	9,400
Net outlay in India.	16,53,598	47,67,203	64,20,801	6,85,558	9,47,309	2,61,751	71,06,359	E.I. No. 10 of June 1928.	76,400
								Canal Mettur, E.I.C. No. 6 C.S. of August 1928.	41,360
								Canal Mettur, E.I.C. No. 8 C.S. of August 1928.	6,375
								Erratum to C.R. No. 12 of 1928-29.	1,67,500
								Erratum to C.R. No. 15 of August 1928.	5,150
<i>Indirect charges.</i>								Erratum to C.R. No. 11 of November 1928.	4,600
Capitalized abatement of land revenue.	66,184	12,913	79,097	6,100	3,847	— 2,253	85,197	C.R. No. 18 of December 1928.	34,100
Leave and pension allowances.	57,144	90,790	1,47,934	..	..	..	1,47,934	S.E. Canal No. 136 of February 1929	5,235
Audit and accounts.	..	17,360	17,360	5,487	6,548	1,061	22,847	C.R. No. 104 of November 1929.	3,023
								S.E. Tanjore, No. 1-B, dated 3rd January 1930.	13,640
Total ..	1,23,328	1,21,063	2,44,391	11,587	10,395	— 1,192	2,55,978	Do. do.	1,05,280
Grand Total—Outlay in India and England.	17,76,926	48,95,466	66,72,392	6,97,145	9,57,704	2,60,559	73,69,537	S.E. Tanjore, No. 73, dated 18th January 1930.	3,650
								C.E.'s Memorandum No. 3157-25 B.E.P., dated 21st February 1930.	2,01,700
Grand Total—Outlay in India.	17,76,926	48,88,266	66,65,192	6,97,145	9,57,704	2,60,559	73,62,337	S.E. Canal Mettur C.R. No. 28 of August 1930.	2,975
								S.E. No. 20 C.I., dated 22nd January 1931.	13,569
								Total ..	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Previous.	1930–1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	960	..	960	960	960
C. Works	2,08,497	..	2,08,497	2,08,497	2,08,497
K. Buildings	11,705	..	11,705	11,705	11,705
O. Miscellaneous	24,999	..	24,999	24,999	24,999
Total ..	2,46,161	..	2,46,161	2,46,161	2,46,161
(2) <i>Main Canals and Branches—</i>					
B. Land	48,103	..	48,103	48,103	48,103
D. Regulators	54,491	..	54,491	54,491	54,491
E. Falls and weirs	1,140	..	1,140	1,140	1,140
F. (1) Other cross drainage works.	35,838	..	35,838	35,838	35,838
G. Bridges	29,201	..	29,201	29,201	29,201
H. Escapes	6,938	..	6,938	6,938	6,938
K. Buildings	2,025	..	2,025	2,025	2,025
L. Earthwork	2,37,611	..	2,37,611	2,37,611	2,37,611
N. Tanks and reservoirs ..	3,62,964	..	3,62,964	3,62,964	3,62,964
O. Miscellaneous	1,312	..	1,312	1,312	1,312
Total ..	7,79,623	..	7,79,623	7,79,623	7,79,623
(3) <i>Distributaries—</i>					
B. Land	13,870	..	13,870	13,870	13,870
O. Works	67,773	..	67,773	67,773	67,773
L. Earthwork	1,23,421	..	1,23,421	1,23,421	1,23,421
N. Tanks and reservoirs ..	49,053	..	49,053	49,053	49,053
O. Miscellaneous	40	..	40	40	40
Total ..	2,54,157	..	2,54,157	2,54,157	2,54,157
(4) <i>Drainage and Protective Works—</i>					
B. Land	2,439	..	2,439	2,439	2,439
C. Works	2,998	..	2,998	2,998	2,998
L. Earthwork	38,305	..	38,305	38,305	38,305
Total ..	43,742	..	43,742	43,742	43,742

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1889).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—cont.	RS.		RS.	RS.	RS.
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	13,23,683	..	13,23,683	13,23,683	13,23,683
I. ESTABLISHMENT ..	3,33,353	..	3,33,353	3,33,353	3,33,353
II. TOOLS AND PLANT ..	10,792	..	10,792	10,792	10,792
Grand Total ..	16,67,828	..	16,67,828	16,67,828	16,67,828
V. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT.	369	..	369	369	369
(a) Net Total ..	16,67,459	..	16,67,459	16,67,459	16,67,459
(a) Chargeable to 49. Irrigation works.	16,55,399	..	16,55,399		
Do. 55-A. Irrigation works—1. Productive.	12,060	..	12,060		
Total ..	16,67,459	..	16,67,459		

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
Water-supply of towns ..	41,324	1,109	42,433	(1) Head works	11,812	3,237	15,049
Receipts from plantations ..	32,147	749	32,896	(2) Main canals and branches	84,951	5,095	90,046
Receipts from other canal produce.	76,251	2,794	79,045	(3) Distributaries	31,448	..	31,448
Water power	171	..	171	(4) Drainage and protective works	1,88,772	534	1,89,306
Rents of buildings	15,617	387	16,004	(5) Special tools and plant	..	..	..
Fines	50	..	50	Total ..	3,16,983	8,866	3,25,849
Miscellaneous	12,046	..	12,046	II. MAINTENANCE AND REPAIRS—	RS.	RS.	RS.
Recoveries of expenditure	..	27	27	(1) Head works	1,53,633	1,882	1,55,515
Deduct—Refunds	1,499	..	1,499	(2) Main canals and branches	10,14,079	19,290	10,33,369
Total, Revenue realized in Public Works Department.	1,76,107	5,066	1,81,173	(3) Distributaries	2,59,152	5,480	2,64,632
Irrigation Revenue realized in Civil Department.	65,16,097	1,57,614	66,73,711	(4) Drainage and protective works	4,86,143	18,417	5,04,560
Total, Direct Receipts ..	66,92,204	1,62,680	68,54,884	(5) Special tools and plant	12	..	12
				Add—Unclassifiable outlay	..	..	..
				Total ..	19,13,019	45,069	19,58,088
				Total, Extensions and Improvements and Maintenance and Repairs.	22,30,002	53,935	22,83,937
				IV. ESTABLISHMENT	8,69,727	21,193	8,90,920
				V. TOOLS AND PLANT	8,596	520	9,116
				VI. REFUNDS OF REVENUE	660	..	660
				Deduct—Recoveries on Revenue account ..	55	..	55
				Total, Direct Charges ..	31,08,930	75,648	31,84,578
				Share of collection charges in the Civil Department.	3,47,077	7,955	3,55,032

II. INDIRECT RECEIPTS—

Share of land revenue collected in the Civil Department.	94,179	1,490	95,669	Indirect charges	1,17,895	728	1,18,623
				Total, Direct and Indirect Charges ..	35,73,902	84,331	36,58,233
				Deduct—* Old maintenance charges saved to Government.	4,40,197	7,692	4,47,889
Total, Public Works and Civil Departments, Revenue.	67,86,383	1,64,170	69,50,553				
				Net Total ..	31,33,705	76,639	32,10,344
				Balance, net revenue ..	36,52,678	87,531	37,40,209
Total, Receipts ..	67,86,383	1,64,170	69,50,553	Grand Total ..	67,86,383	1,64,170	69,50,553

Direct—									
Extensions and improvements	..	..	..	..	..	..	..	352	
Maintenance and repairs	..	..	..	..	..	..	..	5,208	
Establishment	..	..	..	..	..	..	..	2,023	
Tools and plant	..	..	..	..	..	..	..	54	

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SRIVAIKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	31,25,119	Net revenue realized to end of 1929-1930.	36,52,678
Total interest charges for the year 1930-1931.	56,813	Net revenue realized during 1930-1931.	87,531
Balance, net revenue	5,58,277		
Total ..	37,40,209	Total ..	37,40,209
* Interest at 3.3252 per cent on the outlay to end of 1916-17.	53,297		
Interest at 5.44 per cent on the outlay from 1917-18 to end of 1929-30 and half the outlay during 1930-31, i.e., Rs. 64,640.	3,516		
	56,813		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
Capital—	RS.	RS.	RS.
Capitalization of abatement of land revenue	41,220	..	41,220
Leave and pension allowances	66,298	..	66,298
Audit and accounts	77	..	77
Total ..	1,07,604	..	1,07,604
Revenue—			
Capitalization of abatement of land revenue	741	189	930
Leave and pension allowances	1,05,014	..	1,05,014
Audit and accounts	12,140	539	12,679
Total ..	1,17,895	728	1,18,623
Grand Total ..	2,25,499	728	2,26,227

SRIVAİKUNTAM ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

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Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	10,50,679	2,73,004	13,23,683	..	..	..	13,23,683		
Establishment	2,90,193	43,160	2,33,353	..	..	..	3,33,353		
Tools and plant	10,524	268	10,792	..	..	..	10,792		
Suspense account	..	..	..	..	..	..	..		
Total	13,51,396	3,16,432	16,67,828	..	..	..	16,67,828		
Less—Receipts on Capital account	369	..	369	..	..	..	369		
Net Total	13,51,027	3,16,432	16,67,459	..	..	..	16,67,459		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue.	40,408	821	41,229	..	..	..	41,229		
Leave and pension allowances	60,259	6,039	66,298	..	..	..	66,298		
Audit and accounts	..	77	77	..	..	..	77		
Total	1,00,667	6,937	1,07,604	..	..	..	1,07,604		
Grand Total	14,51,694	3,23,369	17,75,063	..	..	..	17,75,063		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

GÖDĀVARI DELTA SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1890).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works</i> —					
B. Land	13,627	..	13,627	13,627	13,627
C. Works	5,06,437	69,384	5,75,821	5,97,685	4,76,685
K. Buildings	48,187	..	48,187	48,187	48,187
L. Earthwork	61,467	..	61,467	61,467	61,467
O. Miscellaneous	7,231	..	7,231	7,231	7,231
Total ..	6,36,949	69,384	7,06,333	7,28,197	6,07,197
(2) <i>Main Canals and Branches</i> —					
A. Preliminary expenses ..	51	..	51	51	51
B. Land	64,396	..	64,396	64,706	64,352
C. Works	6,669	2,534	9,203	7,494	3,664
D. Regulators	84,792	1,230	86,022	95,376	77,176
E. Falls and weirs	22,495	..	22,495	22,495	22,495
F. River and hill torrent works.	67,459	..	67,459	67,450	67,450
F (1) Other cross drainage works.	80,068	..	80,068	80,068	80,068
G. Bridges	49,827	8,772	58,599	73,194	48,830
H. Escapes	86,212	1,819	88,031	89,212	86,212
I. Navigation	13,02,447	17,580	13,20,027	13,02,938	12,55,316
K. Buildings	51,958	9,909	61,867	65,392	47,077
L. Earthwork	9,47,952	48	9,48,000	9,64,240	9,41,234
O. Miscellaneous	42,682	635	43,317	54,908	34,351
Unforeseen works ..	..	..	..	1,292	..
Total ..	28,06,999	42,527	28,49,526	28,88,816	27,28,276
(3) <i>Distributaries</i> —					
A. Preliminary expenses ..	1,139	..	1,139	1,139	1,139
B. Land	1,06,804	22,492	1,29,296	1,48,949	81,667
C. Works	5,29,099	31,211	5,60,310	6,15,407	4,61,758
D. Regulators	..	..	..	370	..
L. Earthwork	3,75,917	4,603	3,80,520	4,22,998	3,36,428
O. Miscellaneous	24,669	465	25,134	37,715	24,228
Unforeseen works ..	..	..	..	1,609	..
Total ..	10,37,628	58,771	10,96,399	12,28,187	9,05,120
4) <i>Drainage and Protective Works</i> —					
A. Preliminary expenses ..	..	..	..	..	..
B. Land	3,46,964	243	3,47,207	3,14,757	1,70,127
C. Works	2,64,054	668	2,64,722	2,88,248	2,51,671
G. Bridges	..	..	..	2,000	..
H. Escapes	..	..	..	..	..
L. Earthwork	19,50,114	41,748	19,91,862	20,97,565	13,68,909
O. Miscellaneous	14,744	39	14,783	84,886	14,416
Unforeseen works ..	..	..	..	2,100	..
Total ..	25,75,876	42,698	26,18,574	27,89,536	18,05,023
(5) Special tools and plant ..	1,12,903	..	1,12,903	1,00,000	..

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

GÖDĀVARI DELTA SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1890).	Expenditure against closed estimate.
	Previous.	1930-31.	Total.		
	RS.	RS.	RS.	RS.	RS.
Provision for unforeseen works	71,70,355	2,13,380	73,83,735	77,34,735	80,45,616
Total	42,99,072	..	42,99,072	42,99,072	42,99,072
Old outlay	..	..	..	..	..
Total Works ..	1,14,69,427	2,13,380	1,16,82,807	1,20,33,808	1,03,44,688
II. ESTABLISHMENT	29,40,335	52,504	29,92,839	29,57,540	25,31,814
III. TOOLS AND PLANT	9,46,622	2,831	9,49,453	9,63,478	9,34,571
IV. SUSPENSE ACCOUNTS	..	..	..	..	..
Grand Total ..	1,53,56,384	2,68,715	1,56,25,099	1,59,54,826	1,38,11,073
V. Less—RECEIPTS ON CAPITAL ACCOUNT	2,647	4,013	6,660	6,660	6,660
Net Total ..	1,53,53,737	2,64,702	1,56,18,439	1,59,48,166	1,38,04,413
<i>Apportionment—</i>					
Chargeable to 49. Irrigation.	1,36,59,041	..	1,36,59,041	..	..
Chargeable to 55-A. Irrigation—1. Productive ..	16,94,696	2,64,702	19,59,398	..	..
Total ..	1,53,53,737	2,64,702	1,56,18,439	..	..

GÖDĀVARI DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
1. Water rates ..	63	..	63	(1) Head works ..	1,14,375	1,043	1,15,418
3. Sale of water ..	31,359	5,286	36,645	(2) Main canals and branches ..	6,25,524	63,854	6,89,378
4. Water-supply of towns ..	23,678	1,235	24,913	(3) Distributaries ..	7,48,916	12,443	7,61,359
5. Receipts from plantations ..	4,43,887	10,201	4,54,088	(4) Drainage and protective works.	1,90,241	18,855	2,09,096
6. Receipts from other canal produce ..	8,53,988	37,423	8,91,411	(5) Special tools and plant ..	87,882	..	87,882
8. Navigation receipts..	54,71,384	1,54,732	56,26,116	Total ..	17,66,938	96,195	18,63,133
9. Rents of buildings ..	18,740	1,173	19,913	II. MAINTENANCE AND REPAIRS—	18,61,218	57,636	19,18,854
10. Fines ..	6,044	22	6,066	(1) Head works ..	89,63,015	3,89,137	93,52,152
11. Miscellaneous ..	4,35,690	3,093	4,38,683	(2) Main canals and branches ..	41,41,393	1,50,838	42,92,231
Recoveries of expenditure.	..	3,018	3,018	(3) Distributaries ..	23,29,771	2,26,016	25,55,787
Deduct—Refunds ..	6,718	1,734	8,452	(4) Drainage and protective works.	4,01,516	..	4,01,516
Total, Revenue realized in Public Works Department ..	72,78,015	2,14,449	74,92,464	(5) Special tools and plant ..	27,27,548	..	27,27,548
Irrigation Revenue realized in Civil Department ..	17,53,56,400	37,73,112	17,91,29,512	Add—Unclassifiable outlay ..	2,04,24,461	8,23,627	2,12,48,088
Total, Direct Receipts ..	18,26,34,415	39,87,561	18,66,21,976	Total ..	2,21,91,399	9,19,822	2,31,11,221
II. INDIRECT RECEIPTS—				Total, Extensions and Improvements and Maintenance and Repairs ..	1,40,13,308	3,17,407	1,43,30,715
Share of land revenue collected in the Civil Department.	1,21,14,062	2,24,272	1,23,38,334	IV. ESTABLISHMENT ..	27,66,780	12,204	27,78,984
Total, Public Works and Civil Departments, Revenue. ..	19,47,48,477	42,11,833	19,89,60,310	V. TOOLS AND PLANT ..	19,950	..	19,950
Total, Receipts ..	19,47,48,477	42,11,833	19,89,60,310	VI. REFUNDS OF REVENUE ..	33,735	..	33,735
				Deduct—Recoveries on Revenue account.			
				Total, Direct Charges ..	3,89,57,702	12,49,433	4,02,07,135
				Share of collection charges in the Civil Department ..	1,01,41,477	1,98,121	1,03,39,598
				Indirect charges ..	21,39,687	9,461	21,49,148
				Total, Direct and Indirect Charges.	5,12,38,866	14,57,015	5,26,95,881
				Balance, net revenue ..	14,35,09,611	27,54,818	14,62,64,429
				Grand Total ..	19,47,48,477	42,11,833	19,89,60,310

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY

GÖDĀVARI DELTA SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	2,82,71,373	Net revenue realized to end of 1929-1930.	14,35,09,611
Total interest charges for the year 1930-1931.	5,67,767	Net revenue realized during 1930-1931.	27,54,818
Interest at 3.3252 per cent on the outlay to end of 1916-17 ..	4,31,886		
Interest at 5.44 per cent on the outlay from 1917-18 to end of 1929-30 plus $\frac{1}{2}$ the outlay during 1930-31, viz., Rs. 24,97,869.	1,35,881		
Total ..	5,67,767		
Balance, net revenue	11,74,25,239		
Total ..	14,62,54,429	Total ..	14,62,64,429

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	15,24,427	123	15,24,550
Leave and pension allowances	5,08,757	..	5,08,757
Audit and accounts	12,144	2,134	14,278
Total ..	20,45,328	2,257	20,47,585
REVENUE—			
Capitalization of abatement of land revenue.	1,01,964	263	1,02,227
Leave and pension allowances	19,84,645	..	19,84,645
Audit and accounts	53,078	9,198	62,276
Total ..	21,39,687	9,461	21,49,148
Grand Total ..	41,85,015	11,718	41,96,733

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

GÖDĀVARI DELTA

No. 6.—Statement comparing Charges

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANC	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total	Charges to date.	Amount of sanctioned estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.
Works	79,85,366	23,59,322	1,03,44,688	13,38,119	16,89,120
Establishment	19,55,654	5,76,160	25,31,814	4,61,025	4,25,726
Tools and plant	8,69,822	64,749	9,34,571	14,882	28,907
Suspense account	..	..	..	..	..
Total ..	1,08,10,842	30,00,231	1,38,11,073	18,14,026	21,43,753
Less—Receipts on capital account.	933	5,727	6,660	..	..
Net Total ..	1,08,09,909	29,94,504	1,38,04,413	18,14,026	21,43,753
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue.	14,95,991	28,151	15,24,142	408	1,077
Leave and pension allowances.	3,92,601	80,542	4,73,143	35,614	..
Audit and accounts	..	1,768	1,768	12,510	5,327
Total ..	18,88,592	1,10,461	19,99,053	48,532	6,404
Grand Total ..	1,26,98,501	31,04,965	1,58,03,466	18,62,558	21,50,157

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1930-1931.

SYSTEM—Canal Project—cont.

to date with Sanctioned Estimates.

TIONS.		REMARKS.	
Unspent balance of estimate.	Total charges to date against old and current sanctions.	G.O. No. and date.	Amount of estimate.
RS.	RS.		RS.
3,51,001	1,16,82,807		
— 35,299	29,92,839		
14,025	9,49,453		
..	..		
3,29,727	1,56,25,099		
..	6,660		
3,29,727	1,56,18,433		
669	15,24,550		
— 35,614	5,08,757		
— 7,183	14,278	Mis. 108 I., 25th March 1920.	9,74,000
— 42,128	20,47,585		
2,87,599	1,76,66,024		
Superintending Engineer's circle Register	No. 52 of October 1926.		11,400
Do.	No. 3 of December 1926.		8,300
Do.	No. 5 of March 1927.		9,000
Do.	No. 1 of August 1927.		12,800
G.O. No. 1790 I., 18th August 1927 and circle Register No. 3 of April 1928			1,54,068+626
Suppl.			
Superintending Engineer's circle Register	No. 2 of September 1927.		6,260
Do.	No. 3 of September 1927.		3,660
Do.	No. 4 of September 1927.		4,240
Do.	No. 21 of September 1927.		3,485
Do.	No. 27 of October 1927.		3,636
Do.	No. 5 of December 1927.		3,050
Do.	No. 6 of January 1928.		9,801
Do.	No. 7 of February 1928.		10,800
Do.	No. 8 of February 1928.		17,411
Do.	No. 9 of February 1928.		20,600
Do.	No. 10 of February 1928.		43,752
Do.	No. 1 of April 1928.		3,800
Do.	No. 37 of September 1928.		13,200
Chief Engineer's No. 723-C.E./27 of 9th April 1929.			1,21,000
Circle Register No. 3 of May 1929.			3,800
Do. No. 4 of May 1929.			3,940
Do. No. 6 of May 1929.			5,050
Do. No. 8 of June 1929.			8,100
Divisional Register No. 26 of July 1929 (Godavari Delta Eastern).			3,100
Do. No. 8 of September 1929 (Western division).			3,365
Circle Register No. 9 of October 1929.			50,000
Do. No. 10 of November 1929.			2,496
Do. No. 11 of November 1929.			8,070
Do. No. 12 of November 1929.			3,800
Do. No. 13 of November 1929.			12,830
Divisional Register No. 45 of November 1929 (Central division).			4,950
Circle Register No. 14 of December 1929.			36,200
Do. No. 15 of February 1930.			8,950
Do. No. 16 of February 1930.			4,040
Divisional Register No. 12 of March 1930 (Western division).			1,580
Circle Register No. 2 of April 1930 (Dowlaiswaram circle).			11,000
Divisional Register No. 4 of April 1930 (Godavari Western division).			2,330
Do. No. 5 of April 1930 (do. do.).			3,000
Do. No. 92 G.O. of April 1930 (Godavari Central division).			1,250
Circle Register No. 3 of May 1930 (Dowlaiswaram circle).			11,160
Divisional Register No. 6 of May 1930 (Godavari Delta Western division).			3,750
Do. No. 7 of May 1930 (do. do.).			1,580
Do. No. 10 of May 1930 (do. do.).			2,981
Circle Register No. 4 of June 1930 (Dowlaiswaram circle).			4,200
Do. No. 12 of July 1930 (do. do.).			1,460
Do. No. 5 of July 1930 (do. do.).			24,000
Do. No. 6 of August 1930 (do. do.).			11,550
Divisional Register No. 14 of October 1930 (Godavari Delta Western division).			3,764
Do. No. 61 G.O. of October 1930 (Godavari Delta Central division).			3,145
Do. No. 15 of November 1930 (Godavari Delta Western division).			3,800
Total ..			16,89,120

MEHAMATHUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in March 1891).	Expenditure against closed estimate.
	Previous.	1930–1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works</i> —					
C. Works ..	56,967	..	56,967	56,967	56,967
(2) <i>Main canals and branches</i> —					
B. Land ..	..	..	..	300	..
O. Works ..	..	..	..	6,500	..
E. Falls and weirs ..	1,844	..	1,844	1,844	1,844
(3) <i>Distributaries</i> —					
C. Works ..	563	..	563	563	563
Total, Works ..	59,374	..	59,374	66,174	59,374
II. ESTABLISHMENT ..	13,990	..	13,990	16,047	13,990
III. TOOLS AND PLANT ..	8	..	8	144	8
Grand Total ..	73,372	..	73,372	82,365	73,372
Chargeable to 43. Provincial Irrigation ..	72,538	..	72,538	..	..
Chargeable to 55-A. Irrigation—1. Productive ..	834	..	834	..	..
Total ..	73,372	..	73,372	..	..

MEHAMATHUR ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.			
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.	
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.	
5. Receipts from plantations ..	1,454	36	1,490	(1) Head works	2,923	..	2,923	
6. Receipts from other canal produce	2,926	38	2,964	(2) Main canals and branches	13,973	..	13,973	
9. Rents of buildings ..	112	3	115	(3) Distributaries	5,116	..	5,116	
11. Miscellaneous	113	..	113	(4) Drainage and protective works	..	..	..	
Recoveries of expenditure. ..	..	2	2	(5) Special tools and plant	..	..	..	
Deduct—Refunds ..	11	..	11	Add—Unclassifiable outlay	9,521	..	9,521	
Total, Revenue realized in Public Works Department	4,594	79	4,673	Total ..	31,533	..	31,533	
Irrigation revenue realized in Civil Department	7,22,589	20,979	7,43,568	II. MAINTENANCE AND REPAIRS—	(1) Head works	49,471	1,523	50,994
				(2) Main canals and branches	63,426	1,520	64,946	
				(3) Distributaries	32,259	750	33,009	
				(4) Drainage and protective works	862	..	862	
				(5) Special tools and plant	..	..	..	
				Add—Unclassifiable outlay	45,826	..	45,826	
				Total ..	1,91,844	3,793	1,95,637	
				Total, Extensions and Improvements and Maintenance and Repairs ..	2,23,377	3,793	2,27,170	
				IV. ESTABLISHMENT	55,829	1,738	57,567	
				V. TOOLS AND PLANT	551	22	573	
				VI. REFUNDS OF REVENUE	4	..	4	
				Deduct—Recoveries on Revenue Account ..	9	..	9	
Total, Direct Receipts.	7,27,183	21,058	7,48,241	Total, Direct Charges ..	2,79,752	5,553	2,85,305	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

MEHAMATHUR ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
II. INDIRECT RECEIPTS—				Share of collection charges in the Civil Department	36,296	1,054	37,350
Share of land revenue collected in the Civil Department ..	3,398	184	3,582	Indirect charges	7,714	38	7,752
				Total, Direct and Indirect Charges ..	3,23,762	6,645	3,30,407
Total, Public Works and Civil Departments, Revenue ..	7,30,581	21,242	7,51,823	Deduct—Old maintenance charges saved to Government (a)	25,041	853	25,894
				Net Total ..	2,98,721	5,792	3,04,513
Total, Receipts ..	7,30,581	21,242	7,51,823	Balance, net revenue	4,31,860	15,450	4,47,310
				Grand Total ..	7,30,581	21,242	7,51,823

(a) Extensions and improvements	RS.
Maintenance and repairs	126
Establishment	510
Tools and plant	207
	4
Total, Direct Charges ..	847
Indirect Charges	6
Total, Direct and Indirect ..	853

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

MEHAMATHUR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	1,59,380	Net revenue realized to end of 1929-1930.	4,31,860
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931.	15,450
Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	2,353		
Interest at 5.44 per cent on the outlay from 1917-1918 to 1929-1930 plus half the outlay during 1930-1931, viz., Rs. 2,611	142		
	2,495		
Balance, net revenue	2,85,435		
Total ..	4,47,310	Total ..	4,47,310

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	45	.	58
Leave and pension allowances	1,958	..	19,456
Audit and accounts	6	..	
Total ..	2,009	..	2,009
REVENUE—			
Capitalization of abatement of land revenue.	354	..	354
Leave and pension allowances	6,986	..	6,986
Audit and accounts	374	38	412
Total ..	7,714	38	7,752
Grand Total ..	9,723	38	9,761

MEHAMATHUR ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	56,289	3,085	59,374	..	6,800	6,800	59,374	(Vide Register No. 7 of November 1930 for Rs. 6,800.)	
Establishment	12,946	1,044	13,990	..	2,057	2,057	13,990		
Tools and plant	..	8	8	..	136	136	8		
Suspense account	..	..	..	..	..	..	..		
Total ..	69,235	4,137	73,372	..	8,993	8,993	73,372		
<i>Less—Receipts on Capital Account</i>	..	..	..	..	..	..	..		
Net Total ..	69,235	4,137	73,372	..	8,993	8,993	73,372		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	..	45	45	..	101	101	45		
Leave and pension allowances	1,812	146	1,958	..	..	..	1,958		
Audit and accounts	..	6	6	..	68	68	6		
Total ..	1,812	197	2,009	..	169	169	2,009		
Grand Total ..	71,047	4,334	75,381	..	9,162	9,162	75,381		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

THADAPALLE CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
C. Works	73,406	..	73,406	73,406	73,406
K. Buildings	1,311	..	1,311	1,311	1,311
Total ..	74,717	..	74,717	74,717	74,717
(2) <i>Main Canals and Branches—</i>					
B. Land	1,880	..	1,880	1,880	1,880
D. Regulators	36,546	..	36,546	36,546	36,546
F. (1) Other cross drainage works ..	1,096	..	1,096	1,096	1,096
K. Buildings	1,442	..	1,442	1,442	1,442
L. Earthwork	1,384	..	1,384	1,384	1,384
O. Miscellaneous ..	1,836	..	1,836	1,836	1,836
Total ..	44,184	..	44,184	44,184	44,184
(3) <i>Distributaries—</i>					
B. Land	..	..	..	..	..
C. Works	355	..	355	355	355
L. Earthwork	17,275	..	17,275	17,275	17,275
O. Miscellaneous ..	..	..	..	..	..
Total ..	17,630	..	17,630	17,630	17,630
Total, Works ..	1,36,531	..	1,36,531	1,36,531	1,36,531
II. ESTABLISHMENT	29,836	..	29,836	29,836	29,836
III. TOOLS AND PLANT	16	..	16	16	16
Grand Total ..	1,66,383	..	1,66,383	1,66,383	1,66,383
Chargeable to "43. Minor Works and Navigation—Provincial"	1,64,755	..	1,64,755	..	..
"55-A. Irrigation — Productive"	1,628	..	1,628	..	..
Total ..	1,66,383	..	1,66,383	..	..

THADAPALLE CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	8,100	1,244	9,344	(1) Head works	6,522	172	6,694
6. Receipts from other canal produce	4,845	..	4,845	(2) Main canals and branches	33,345	480	33,825
9. Rents of buildings	1,415	92	1,507	(3) Distributaries	9,328	..	9,328
11. Miscellaneous	27,093	15	27,108	(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	74	..	74
				<i>Add—Unclassified outlay</i>	7,726	..	7,726
				Total ..	56,995	652	57,647
Total, Revenue realized in Public Works Department	41,453	1,351	42,804	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	23,42,032	68,514	24,05,546	(1) Head works	43,276	1,726	45,002
				(2) Main canals and branches	2,89,399	18,284	3,07,683
				(3) Distributaries	8,627	..	8,627
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				<i>Add—Unclassifiable outlay</i>	1,99,673	..	1,99,673
Total, Direct Receipts ..	23,83,485	64,865	24,48,350	Total ..	5,46,975	20,010	5,60,985
				Total, Extensions and Improvements and Maintenance and Repairs ..	5,97,970	20,662	6,18,632
				*IV. ESTABLISHMENT	1,49,224	5,449	1,54,673
				V. TOOLS AND PLANT	2,315	520	2,835
				VI. REFUNDS OF REVENUE	22	..	22
				<i>Deduct—Recoveries on Revenue Account</i>	11	..	11
				Total, Direct Charges ..	7,49,520	26,631	7,76,151

INDIRECT RECEIPTS—				Share of collection charges in the Civil Department				1,26,067	8,322	1,29,389
Share of Land Revenue collected in the Civil Department ..				Indirect charges				19,796	207	20,003
	1,79,282	2,929	1,82,211	Total, Direct and Indirect Charges ..				8,95,383	30,160	9,25,543
Total, Public Works and Civil Departments, Revenue ..				Deduct—Old maintenance charges saved to Government*				85,404	4,512	89,916
	25,62,767	67,794	26,30,561	Net Total ..				8,09,979	25,648	8,35,627
				Balance, net revenue				17,52,788	42,146	17,94,934
				Grand Total ..				25,62,767	67,794	26,30,561
Total, Receipts ..	25,62,767	67,794	26,30,561							

								rs.
* Direct—								
Extensions and improvements								3,569
Maintenance and repairs								817
Establishment								90
Tools and plant								
Total, Direct ..								4,476
Indirect								36
Total, Direct and Indirect ..								4,512

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

THADAPALLE CHANNEL—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930	3,09,370	Net revenue realized to end of 1929–1930	17,52,788
Total interest charges for the year 1930–1931	5,567	Net revenue realized during 1930–1931	42,146
Balance, net revenue	14,79,997		
Total ..	17,94,934	Total ..	17,94,934
Interest at 3·3252 per cent on the outlay to end of 1916–1917 ..	5,478		
Interest at 5·44 per cent on the outlay from 1917–1918 to end of 1929–1930 plus half the outlay during 1930–1931, i.e., on Rs. 1,628	89		
Total ..	5,567		

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous.	1930–1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	6,915	..	6,915
Leave and pension allowances	4,135	..	4,135
Audit and accounts	13	..	13
Total ..	11,063	..	11,063
REVENUE—			
Capitalization of abatement of land revenue	45	..	45
Leave and pension allowances	18,518	..	18,518
Audit and accounts	1,233	207	1,440
Total ..	19,796	207	20,003
Grand Total ..	30,859	207	31,066

THADAPALLE CHANNEL—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	70,897	65,634	1,36,531	..	..	..	1,36,531		
Establishment	16,306	13,530	29,836	..	..	..	29,836		
Tools and plant	..	16	16	..	..	..	16		
Suspense account	..	..	..	..	..	..	..		
Total ..	87,203	79,180	1,66,383	..	..	..	1,66,383		
Less—Receipts on capital account	..	..	..	..	..	..	..		
Net Total ..	87,203	79,180	1,66,383	..	..	..	1,66,383		
<i>Indirect Charges.</i>									
Capitalized abatement of Land Revenue	..	6,915	6,915	..	..	..	6,915		
Leave and pension allowances	2,283	1,852	4,135	..	..	..	4,135		
Audit and accounts	..	13	13	..	..	..	13		
Total ..	2,283	8,780	11,063	..	..	..	11,063		
Grand Total ..	89,486	87,960	1,77,446	..	..	..	1,77,446		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KALINGAROYAN CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (correction estimate closed in 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	..	..	..	..	..
C. Works	46,690	..	46,690	46,690	46,690
K. Building	1,162	..	1,162	1,162	1,162
Total ..	47,852	..	47,852	47,852	47,852
(2) <i>Main Canals and Branches—</i>					
D. Regulators	67,543	..	67,543	67,543	67,543
F. River and hill torrent works	8,557	..	8,557	8,557	8,557
G. Bridges	897	..	897	897	897
L. Earthwork	3,981	..	3,981	3,981	3,981
O. Miscellaneous	14,959	..	14,959	14,959	14,959
Total ..	95,937	..	95,937	95,937	95,937
Total, Works ..	1,43,789	..	1,43,789	1,43,789	1,43,789
II. ESTABLISHMENT	32,191	..	32,191	32,191	32,191
III. TOOLS AND PLANT	..	..	..	..	..
* Grand Total ..	1,75,980	..	1,75,980	1,75,980	1,75,980

* Chargeable to "43. Minor Works and Navigation—Provincial."

KALINGAROYAN CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
1. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	10,391	2,072	12,463	(1) Head works	3,482	58	3,540
6. Receipts from other canal produce	11,199	..	11,199	(2) Main canals and branches	17,705	..	17,705
9. Rents of buildings	857	50	907	(3) Distributaries	280	..	280
11. Miscellaneous	40,480	75	40,555	(4) Drainage and protective works	..	..	..
DEDUCT—REFUNDS—	53	..	53	(5) Special tools and plant	..	..	..
Total, Revenue realized in Public Works Department	62,874	2,197	65,071	Add—Unclassifiable outlay	11,569	..	11,569
Irrigation revenue realized in Civil Department	16,10,666	45,431	16,56,097	Total ..	33,036	58	33,094
Total, Direct Receipts ..	16,73,540	47,628	17,21,168	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	87,983	2,311	90,294
				(2) Main canals and branches	2,64,512	12,273	2,76,785
				(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	— 50	..	— 50
				Add—Unclassifiable outlay	3,53,846	..	3,53,846
				Total ..	7,06,291	14,584	7,20,875
				Total, Extensions and Improvements and Maintenance and Repairs	7,39,327	14,642	7,53,969
				IV. ESTABLISHMENT	1,82,282	3,920	1,86,202
				V. TOOLS AND PLANT	2,222	368	2,590
				VI. REFUNDS OF REVENUE	243	..	243
				Deduct—Recoveries on Revenue account	9	..	9
				Total, Direct Charges ..	9,24,065	18,930	9,42,995

KALINGAROYAN CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	RE.	RS.	RS.	Share of collection charges in the Civil Department	RS.	RS.	RS.
Share of land revenue collected in the Civil Department ..	25,654	483	26,137	Indirect charges	81,817 24,691	2,296 147	84,113 24,838
Total, Public Works and Civil Departments, Revenue ..	16,99,194	48,111	17,47,305	Total, Direct and Indirect Charges ..	10,30,573	21,373	10,51,946
				Deduct—Old maintenance charges saved to Government (a)	95,516	5,047	1,00,563
				Net Total ..	9,35,057	16,326	9,51,383
				Balance, net revenue	7,64,137	31,785	7,95,922
Total, Receipts ..	16,99,194	48,111	17,47,305	Grand Total ..	16,99,194	48,111	17,47,305

(a) Direct—

Extensions and improvements	RS.
Maintenance and repairs	3,992
Establishment	915
Tools and plant	100
Total, Direct ..	5,007
Indirect	40
Total, Direct and Indirect ..	5,047

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KALINGAROYAN CHANNEL—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,38,020	Net revenue realized to end of 1929-1930	7,64,137
Total interest charges for the year 1930-1931	5,852	Net revenue realized during 1930-1931	31,785
Balance, net revenue	5,52,050		
Total ..	7,95,922	Total ..	7,95,922
Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	5,852		
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 ..	..		
Total ..	5,852		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Leave and pension allowances	4,506	..	4,506
Total ..	4,506	..	4,506
REVENUE—			
Leave and pension allowances	23,737	..	23,737
Audit and accounts	954	147	1,101
Total ..	24,691	147	24,838
Grand Total ..	29,197	147	29,344

KALINGAROYAN CHANNEL—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	43,775	1,00,014	1,43,789	..	..	..	1,43,789		
Establishment	10,068	22,123	32,191	..	..	..	32,191		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	53,843	1,22,137	1,75,980	..	..	..	1,75,980		
<i>Less—Receipts on Capital account</i>	..	..	..	..	..	..	..		
Net Total ..	53,843	1,22,137	1,75,980	..	..	..	1,75,980		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	1,410	3,096	4,506	..	..	..	4,506		
Total ..	1,410	3,096	4,506	..	..	..	4,506		
Grand Total ..	55,253	1,25,233	1,80,486	..	..	..	1,80,486		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

VRIDDHACHALAM ANICUT SYSTEM—*Canal Project.*
No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in March 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	..	..	..	..	..
C. Works	58,094	..	58,094	58,094	58,094
O. Miscellaneous	..	..	..	..	..
Total ..	58,094	..	58,094	58,094	58,094
(2) <i>Main Canals and Branches—</i>					
B. Land	158	..	158	158	158
D. Regulators	4,049	..	4,049	4,049	4,049
E. Falls and Weirs	6,315	..	6,315	6,315	6,315
L. Earthwork	..	..	..	..	..
Total ..	10,522	..	10,522	10,522	10,522
Total, Works ..	68,616	..	68,616	68,616	68,616
II. ESTABLISHMENT ..	15,575	..	15,575	15,575	15,575
III. TOOLS AND PLANT ..	..	..	..	..	..
* Grand Total ..	84,191	..	84,191	84,191	84,191

* Chargeable to "43. Minor Works and Navigation—Provincial."

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations	4,416	294	4,710	(1) Head works	6,877	..	6,877
6. Receipts from other canal produce ..	2,888	72	2,960	(2) Main canals and branches ..	24,273	..	24,273
8. Navigation receipts	..	1	1	(3) Distributaries	14,090	2,191	16,281
9. Rents of buildings	78	2	80	(4) Drainage and protective works ..	..	..	..
10. Fines	5	..	5	(5) Special tools and plant ..	..	..	..
11. Miscellaneous	2,010	..	2,010	Add—Unclassifiable outlay ..	1,968	..	1,968
Recoveries of expenditure	..	16	16	Total ..	47,208	2,191	49,399
Deduct—Refunds	131	..	131	II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department	9,266	385	9,651	(1) Head works	59,498	1,938	61,436
Irrigation revenue realized in Civil Department ..	11,15,261	32,959	11,48,220	(2) Main canals and branches ..	84,338	2,074	86,412
Total, Direct Receipts ..	11,24,527	33,344	11,57,871	(3) Distributaries	52,607	2,383	54,990
II. INDIRECT RECEIPTS—				(4) Drainage and protective works ..	1,089	..	1,089
Share of land revenue collected in the Civil Department ..	21,531	339	21,870	(5) Special tools and plant ..	..	..	..
Total, Public Works and Civil Departments, Revenue ..	11,46,058	33,683	11,79,741	Add—Unclassifiable outlay ..	53,862	..	53,862
Total, Receipts ..	11,46,058	33,683	11,79,741	Total ..	2,51,394	6,395	2,57,789
				Total, Extensions and Improvements and Maintenance and Repairs ..	2,98,002	8,586	3,07,188
				IV. ESTABLISHMENT	75,330	3,734	79,064
				V. TOOLS AND PLANT	936	50	986
				VI. REFUNDS OF REVENUE	..	..	..
				Deduct—Recoveries on revenue account	62	..	62
				Total, Direct Charges ..	3,74,806	12,370	3,87,176
				Share of collection charges in the Civil Department	56,836	1,664	58,500
				Indirect charges	9,898	86	9,984
				Total, Direct and Indirect charges ..	4,41,540	14,120	4,55,660
				Balance, net revenue	7,04,518	19,563	7,24,081
				Grand Total ..	11,46,058	33,683	11,79,741

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

VRIDDHACHALAM ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	1,43,829	Net revenue realized to end of 1929-1930.	7,04,518
Total interest charges for the year 1930-1931.	2,799	Net revenue realized during 1930-1931.	19,563
Balance, net revenue	5,77,453		
Total ..	7,24,081	Total ..	7,24,081
* Interest at 3.3252 per cent on the outlay to end of 1916-1917.	2,799		
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931.	..		
Total ..	2,799		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	314	..	314
Leave and pension allowances	2,180	..	2,180
Audit and accounts	..	..	..
Total ..	2,494	..	2,494
REVENUE—			
Capitalization of abatement of land revenue ..	358	..	358
Leave and pension allowances	8,917	..	8,917
Audit and accounts	623	86	709
Total ..	9,898	86	9,984
Grand Total ..	12,392	86	12,478

VRIDDHACHALAM ANICUT SYSTEM—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	39,405	29,211	68,616	..	..	..	68,616		
Establishment	9,063	6,512	15,575	..	..	..	15,575		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	48,468	35,723	84,191	..	..	..	84,191		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net Total ..	48,468	35,723	84,191	..	..	..	84,191		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	314	314	..	..	..	314		
Leave and pension allowances	1,269	911	2,180	..	..	..	2,180		
Total ..	1,269	1,225	2,494	..	..	..	2,494		
Grand Total ..	49,737	36,948	86,685	..	..	..	86,685		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PELANDORAI ANICUT SYSTEM—*Canal Project.*
No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (closed in 1933).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works</i> —					
B. Land	2,64,856	..	2,64,856	2,64,856	2,64,856
C. Works	4,192	..	4,192	4,192	4,192
K. Buildings	2,102	..	2,102	2,102	2,102
O. Miscellaneous	..	..	..	..	..
Total ..	2,71,150	..	2,71,150	2,71,150	2,71,150
(2) <i>Main Canals and Branches</i> —					
B. Land	12,255	..	12,255	12,255	12,255
D. Regulators	9,938	..	9,938	9,938	9,938
E. Falls and weirs	9,958	..	9,958	9,958	9,958
F. (1) Other cross drainage works.	18,849	..	18,849	18,849	18,849
G. Bridges	15,786	..	15,786	15,786	15,786
H. Escapes	682	..	682	682	682
L. Earthwork	1,00,958	..	1,00,958	1,00,958	1,00,958
N. Tanks and reservoirs	38,505	..	38,505	38,505	38,505
Total ..	2,06,931	..	2,06,931	2,06,931	2,06,931
(3) <i>Distributaries</i> —					
B. Land	..	..	..	..	..
C. Works	9,660	..	9,660	9,660	9,660
L. Earthwork	9,372	..	9,372	9,372	9,372
N. Tanks and reservoirs	1,094	..	1,094	1,094	1,094
Total ..	20,126	..	20,126	20,126	20,126
(4) <i>Drainage and Protective Works</i> —					
B. Land	1,937	..	1,937	1,937	1,937
C. Works	10,463	..	10,463	10,463	10,463
L. Earthwork	10,027	..	10,027	10,027	10,027
O. Miscellaneous	3	..	3	3	3
Total ..	22,430	..	22,430	22,430	22,430
(5) <i>Special tools and plant</i>	..	..	..	..	..
Provision for unforeseen works	..	..	..	..	..
Total, Works ..	5,20,637	..	5,20,637	5,20,637	5,20,637
II. ESTABLISHMENT	1,17,426	..	1,17,426	1,17,426	1,17,426
III. TOOLS AND PLANT	6,037	..	6,037	6,037	6,037
Grand Total ..	6,44,100	..	6,44,100	6,44,100	6,44,100
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	798	..	798	798	798
* Net Total ..	6,43,302	..	6,43,302	6,43,302	6,43,302

During 1930-31. To end of 1930-31.

	RS.	RS.	RS.
* Chargeable to "43. Minor Works and Navigation—Provincial".	6,43,270	..	6,43,270
Chargeable to 55-A. Irrigation Works—I. Productive.	32	..	32
Total ..	6,43,302	..	6,43,302

PELANDORAI ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	9,679	744	10,423	(1) Head works	22,251	301	22,552
6. Receipts from other canal produce ..	8,239	198	8,437	(2) Main canals and branches	51,164	2,559	53,723
9. Rents of buildings.	1,479	134	1,613	(3) Distributaries	24,156	320	24,476
10. Fines	1	..	1	(4) Drainage and protective works	..	..	..
11. Miscellaneous ..	846	76	922	(5) Special tools and plant	..	..	..
Recoveries of expenditure.	..	15	15	Total ..	97,571	3,180	1,00,751
Deduct—Refunds ..	78	..	78	II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department ..	20,166	1,167	21,333	(1) Head works	3,10,929	1,759	3,12,688
Irrigation Revenue realized in Civil Department ..	16,76,950	56,862	17,33,812	(2) Main canals and branches	3,61,713	6,144	3,67,857
Total, Direct receipts ..	16,97,116	58,029	17,55,145	(3) Distributaries	61,530	5,410	66,940
				(4) Drainage and protective works	123	..	123
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	7,34,295	13,313	7,47,608
				Total, Extensions and Improvements and Maintenance and Repairs	8,31,866	16,493	8,48,359
				IV. ESTABLISHMENT	2,09,799	6,848	2,16,647
				V. TOOLS AND PLANT	5,922	97	6,019
				VI. REFUNDS OF REVENUE	30	..	30
				Deduct—Recoveries on Revenue account	168	..	168
				Total, Direct charges ..	10,47,449	23,438	10,70,887

II. INDIRECT RECEIPTS—

Share of land revenue collected in the Civil Department.	5,039	86	5,125	Share of collection charges in the Civil Department ..	84,894	2,847	87,741
				Indirect charges	32,310	165	32,475
				Total, Direct and Indirect charges ..	11,64,653	26,450	11,91,103
				Deduct—(a) Old maintenance charges saved to Government ..	8,409	158	8,567
Total, Public Works and Civil Departments, Revenue	17,02,155	58,115	17,60,270	Net Total ..	11,56,244	26,292	11,82,536
				Balance, net revenue ..	5,45,911	31,823	6,77,734
Total, Receipts ..	17,02,155	58,115	17,60,270	Grand Total ..	17,02,155	58,115	17,60,270

(a) Extensions and improvements	Rs. 59
Maintenance and repairs	58
Establishment	39
Tools and plant	1
Total, Direct Charges ..	157
Indirect charges	1
Total, Direct and Indirect ..	158

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

PELANDORAI ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	10,37,000	Net revenue realized to end of 1929-1930.	5,45,911
Total interest charges for the year 1930-1931.	22,073	Net revenue realized during 1930-1931.	31,823
		Balance, net interest charges.	4,81,339
Total ..	10,59,073	Total ..	10,59,073
* Interest at 3·3252 per cent on the outlay to end of 1916-1917.	20,320		
Interest at 5·44 per cent on the outlay of Rs. 32,225 from 1917-1918 to 1929-1930 plus half the outlay during 1930-1931.	1,753		
	22,073		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	27,907	..	27,907
Leave and pension allowances	20,865	..	20,865
Audit and accounts	..	..	..
Total ..	48,772	..	48,772
REVENUE—			
Capitalization of abatement of land revenue.	1,069	..	1,069
Leave and pension allowances	29,994	..	29,994
Audit and accounts	1,247	165	1,412
Total ..	32,310	165	32,475
Grand Total ..	81,082	165	81,247

PELANDORAI ANICUT SYSTEM—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	3,32,345	1,88,292	5,20,637	..	..	..	5,20,637		
Establishment	73,999	43,427	1,17,426	..	..	..	1,17,426		
Tools and plant	4,438	1,599	6,037	..	..	..	6,037		
Suspense account	..	..	..	..	..	..	..		
Total	4,10,782	2,33,318	6,44,100	..	..	..	6,44,100		
Less—Receipts on Capital account	798	..	798	..	..	..	798		
Net Total	4,09,984	2,33,318	6,43,302	..	..	..	6,43,302		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	27,489	418	27,907	..	..	..	27,907		
Leave and pension allowances	14,769	6,096	20,865	..	..	..	20,865		
Audit and accounts	..	..	..	..	..	..	..		
Total	42,258	6,514	48,772	..	..	..	48,772		
Grand Total	4,52,242	2,39,832	6,92,074	..	..	..	6,92,074		

CHEMBRAMBAKKAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
K. Buildings	4,640	..	4,640	4,640	4,640
(2) <i>Main Canals and Branches—</i>					
B. Land	1,11,062	..	1,11,062	1,11,062	1,11,062
C. Works	1,03,009	..	1,03,009	1,03,009	1,03,009
K. Buildings	4,801	..	4,801	4,801	4,801
L. Earthwork	2,20,643	..	2,20,643	2,20,643	2,20,643
O. Miscellaneous	61,729	..	61,729	61,729	61,729
Total	5,01,244	..	5,01,244	5,01,244	5,01,244
(3) <i>Distributaries—</i>					
B. Land	..	..	..	..	..
C. Works	5,902	..	5,902	5,902	5,902
L. Earthwork	2,469	..	2,469	2,469	2,469
Total	8,371	..	8,371	8,371	8,371
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	5,14,255	..	5,14,255	5,14,255	5,14,255
II. ESTABLISHMENT	1,28,958	..	1,28,958	1,28,958	1,28,958
III. TOOLS AND PLANT	8,249	..	8,249	8,249	8,249
Grand Total ..	6,51,462	..	6,51,462	6,51,462	6,51,462
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	114	..	114	114	114
Net Total ..	6,51,348	..	6,51,348	6,51,348	6,51,348
Chargeable to 43. Provincial Irrigation.	6,49,829	..	6,49,829	..	..
Chargeable to 55-A. Irrigation Works—2. Unproductive.	1,519	..	1,519	..	..
Total ..	6,51,348	..	6,51,348	..	..

CHEMBRAMBAKKAM TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	445	..	445	(1) Head works	4,573	97	4,670
6. Receipts from other canal produce	2,319	..	2,319	(2) Main canals and branches	42,044	375	42,419
9. Rents of buildings ..	706	68	774	(3) Distributaries	4,448	..	4,448
10. Fines	5	..	5	(4) Drainage and protective works	..	..	..
11. Miscellaneous	11,250	170	11,420	(5) Special tools and plant	..	..	..
<i>Deduct—Refunds</i>	267	..	267	Total ..	51,065	472	51,537
Total, Revenue realized in Public Works Department	14,458	238	14,696	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	20,09,228	40,008	20,49,236	(1) Head works	37,198	..	37,198
				(2) Main canals and branches	3,48,111	13,533	3,61,644
				(3) Distributaries	16,325	..	16,325
Total, Direct Receipts ..	20,23,686	40,246	20,63,932	(4) Drainage and protective works	..	..	..
II. INDIRECT RECEIPTS—				(5) Special tools and plant	..	..	..
Share of land revenue collected in the Civil department ..	44,923	957	45,880	<i>Add—Unclassifiable outlay</i>	..	..	..
				Total ..	4,01,634	13,533	4,15,167

CHEMBRAMBAKKAM TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
Total, Public Works and Civil departments—Revenue ..	20,68,609	41,203	21,09,812	Total, Extensions and Improvements and Maintenance and Repairs	4,52,699	14,005	4,66,704
				IV. ESTABLISHMENT	1,20,971	2,900	1,23,871
				V. TOOLS AND PLANT	2,405	53	2,458
				VI. REFUNDS OF REVENUE	45	..	45
				Deduct—Recoveries on revenue account	296	..	296
				Total, Direct Charges ..	5,75,824	16,958	5,92,782
				Share of collection charges in the Civil department	1,10,576	2,048	1,12,624
				Indirect charges	19,157	140	19,297
				Total, Direct and Indirect charges ..	7,05,557	19,146	7,24,703
				Deduct—Old maintenance charges saved to Government (a)	4,16,994	6,478	4,23,472
				Net Total ..	2,88,563	12,668	3,01,231
				Balance, net revenue	17,80,046	28,535	18,08,581
Total, Receipts ..	20,68,609	41,203	21,09,812	Grand Total ..	20,68,609	41,203	21,09,812

(a) Extensions and improvements	RS.
Maintenance and repairs	2,283
Establishment	3,097
Tools and plant	1,024
	20
Total, Direct charges ..	6,424
Indirect charges	54
Total, Direct and Indirect ..	6,478

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

CHEMBRAMBAKKAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	13,69,611	Net revenue realized to end of 1929-1930	17,80,046
Total interest charges for the year 1930-1931	* 21,914	Net revenue realized during 1930-1931	28,535
Balance, net revenue	4,17,056		
Total ..	18,08,581	Total ..	18,08,581
* Interest at 3.3252 per cent on the outlay to end of 1916-17 ..	21,256		
Interest at 5.44 per cent on the outlay of Rs. 12,097 from 1917-1918 to end of 1929-30 + $\frac{1}{2}$ the outlay during 1930-31 ..	658		
Total ..	21,914		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue ..	85,701	..	85,701
Leave and pension allowances	27,081	..	27,081
Audit and accounts	13	..	13
Total ..	1,12,795	..	1,12,795
REVENUE—			
Leave and pension allowances	18,491	..	18,491
Audit and accounts	666	140	806
Total ..	19,157	140	19,297
Grand Total ..	1,31,952	140	1,32,092

CHEMBRAMBAKKAM TANK—Tank Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	Remarks.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.	
Works	4,91,801	22,454	5,14,255	..	..	..	5,14,255	
Establishment	1,24,534	4,424	1,28,958	..	..	..	1,28,958	
Tools and plant	8,204	45	8,249	..	..	..	8,249	
Suspense account	..	..	..	..	..	..	..	
Total ..	6,24,539	26,923	6,51,462	..	..	..	6,51,462	
Less—Receipts on Capital Account	114	..	114	..	..	..	114	
Net Total ..	6,24,425	26,923	6,51,348	..	..	..	6,51,348	
<i>Indirect Charges.</i>								
Capitalized abatement of land revenue ..	85,701	..	85,701	..	..	..	85,701	
Leave and pension allowances	26,463	618	27,081	..	..	..	27,081	
Audit and accounts	..	13	13	..	..	..	13	
Total ..	1,12,164	631	1,12,795	..	..	..	1,12,795	
Grand Total ..	7,36,589	27,554	7,64,143	..	..	..	7,64,143	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

MARUDUR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
C. Works	10,441	..	10,441	10,441	10,441
Total ..	10,441	..	10,441	10,441	10,441
(2) <i>Main Canals and Branches—</i>					
L. Earthwork ..	1,398	..	1,398	1,398	1,398
N. Tanks and reservoirs.	30,083	..	30,083	30,083	30,083
Total ..	31,481	..	31,481	31,481	31,481
(3) <i>Distributaries—</i>					
B. Land	308	..	308	308	308
C. Works	3,192	..	3,192	3,192	3,192
L. Earthwork ..	2,503	..	2,503	2,503	2,503
Total ..	6,003	..	6,003	6,003	6,003
Total, Works ..	47,925		47,925	47,925	47,925
II. ESTABLISHMENT ..	10,820	..	10,820	10,820	10,820
III. TOOLS AND PLANT ..	— 24	..	— 24	— 24	— 24
Grand Total ..	58,721	..	58,721	58,721	58,721
Deduct.—Receipts on Capital Account.	..	..	..	..	..
(a) Net Total ..	58,721	..	58,721	58,721	58,721
(a) Chargeable to 43. Minor Works and Navigation—Provincial.	50,541	..	50,541		
Chargeable to 55-A. Irrigation Works—I. Productive.	8,180	..	8,180		
Total ..	58,721	..	58,721		

MARUDUR ANICUT SYSTEM—Canal Project— cont.
No. 3.—Revenue Account for and to end of 1930-1931

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	9,030	..	9,030	(1) Head works	1,142	..	1,142
6. Receipts from other canal produce.	25,218	1,964	27,182	(2) Main canals and branches	15,595	5,737	21,332
9. Rents of buildings	30	9	30	(3) Distributaries	10,636	..	10,636
11. Miscellaneous	3,848	93	3,941	(4) Drainage and protective works	4,094	..	4,094
Recoveries of expenditure	..	17	17	(5) Special tools and plant	..	..	..
Deduct—Refunds	275	..	275	Add—Unclassifiable outlay	11,000	..	11,000
Total revenue realized in Public Works Department.	37,851	2,083	39,934	Total ..	42,467	5,737	48,204
Irrigation revenue realized in Civil Department.	46,68,119	94,659	47,62,778	II. MAINTENANCE AND REPAIRS—			
Total, Direct Receipts ..	47,05,970	96,742	48,02,712	(1) Head works	63,940	1,649	65,589
				(2) Main canals and branches	3,40,201	24,479	3,64,680
				(3) Distributaries	1,01,793	132	1,01,925
				(4) Drainage and protective works	47,923	201	48,124
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	1,98,634	..	1,98,634
				Total ..	7,52,491	26,461	7,78,952
				Total, Extensions and Improvements and Maintenance and Repairs.	7,94,958	32,198	8,27,156
				IV. ESTABLISHMENT	1,96,330	11,787	2,08,117
				V. TOOLS AND PLANT	407	310	717
				VI. REFUNDS OF REVENUE	145	..	145
				Deduct—Recoveries on Revenue account	17	..	17
				Total, Direct Charges ..	9,91,823	44,295	10,36,118

II. INDIRECT RECEIPTS—

Share of land revenue collected in the Civil Department.	13,588	279	13,867	Share of collection charges in the Civil Department.	2,34,086	4,747	2,38,833
				Indirect charges	25,287	322	25,609
Total, Public Works and Civil Departments, Revenue.	47,19,558	97,021	48,16,579	Total, Direct and Indirect Charges ..	12,51,196	49,364	13,00,560
				Deduct—Old maintenance charges saved to Government (a).	1,88,459	6,502	1,94,961
				Net Total ..	10,62,737	42,862	11,05,599
				Balance, Net revenue	36,56,821	54,159	37,10,980
Total, Receipts ..	47,19,558	97,021	48,16,579	Grand Total ..	47,19,558	97,021	48,16,579

(a) Extensions and improvements	Rs.
Maintenance and repairs	200
Establishment	4,500
Tools and plant	1,710
	45
Total, Direct Charges ..	6,455
Indirect Charges ..	47
Total, Direct and Indirect ..	6,502

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MARUDUR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930.	85,377	Net revenue realized to end of 1929–1930.	36,56,321
Total interest charges for the year 1930–1931.	* 2,125	Net revenue realized during 1930–1931.	54,159
Balance, Net revenue ..	36,23,478		
Total ..	37,10,980	Total ..	37,10,980
* Interest at 3·3252 per cent on the outlay to end of 1916–1917.	1,680	....	..
Interest at 5·44 per cent on the outlay of Rs. 8,180 from 1917–1918 to end of 1929–1930 and half the outlay during 1930–1931.	445	....	..
Total ..	2,125		

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous.	1930–1931.	Total.
CAPITAL—	RS.	RS.	RS.
Leave and pension allowances ..	1,336	..	1,336
Audit and accounts	65	..	65
Total ..	1,401	..	1,401
REVENUE—			
Capitalization of abatement of land revenue.	449	..	449
Leave and pension allowances ..	22,113	..	22,113
Audit and accounts	2,725	322	3,047
Total ..	25,287	322	25,609
Grand Total ..	26,688	322	27,010

MARUDUR ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	rs.	rs.	rs.				rs.		
Works	32,590	15,335	47,925	..	..	..	47,925		
Establishment	7,496	3,324	10,820	..	..	..	10,820		
Tools and plant	..	— 24	— 24	..	..	..	— 24		
Suspense account	..	..	..	..	..	..	..		
Total	40,086	18,635	58,721	..	..	..	58,721		
<i>Less</i> —Receipts on Capital account	..	..	..	..	..	..	..		
Net Total	40,086	18,635	58,721	..	..	..	58,721		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	1,049	287	1,336	..	..	..	1,336		
Audit and accounts	..	65	65	..	..	..	65		
Total	1,049	352	1,401	..	..	..	1,401		
Grand Total	41,135	18,987	60,122	..	..	..	60,122		

PENNAR RIVER CANALS SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1934).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
(1)	(2)	(3)	(4)	(5)	(6)
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works—</i>					
A. Preliminary expenses ..	51,130	..	51,130	51,130	51,130
B. Land	18,513	..	18,513	18,513	18,513
C. Works	7,40,984	..	7,40,984	7,40,984	7,40,984
K. Buildings	24,039	..	24,039	24,039	24,039
O. Miscellaneous	32,502	..	32,502	32,502	32,502
P. Maintenance	4,105	..	4,105	4,105	4,105
Total ..	8,71,273	..	8,71,273	8,71,273	8,71,273
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses ..	506	..	506	506	506
B. Land	3,92,241	..	3,92,241	3,92,241	3,92,241
D. Regulators	2,13,597	..	2,13,597	2,13,597	2,13,597
E. Falls and weirs	36,643	..	36,643	36,643	36,643
F. River and hill torrent works	1,559	..	1,559	1,559	1,559
F. (1) Other cross drainage works	3,594	..	3,594	3,594	3,594
G. Bridges	62,275	..	62,275	62,275	62,275
H. Escapes	22,377	..	22,377	22,377	22,377
K. Buildings	18,442	..	18,442	18,442	18,442
L. Earthwork	4,02,471	..	4,02,471	4,02,471	4,02,471
N. Tanks and reservoirs ..	3,74,582	..	3,74,582	3,74,582	3,74,582
O. Miscellaneous	23,942	..	23,942	24,482	23,942
P. Maintenance	22,082	..	22,082	22,082	22,082
Total ..	15,74,311	..	15,74,311	15,80,191	15,74,311
<i>Reservoirs—</i>					
B. Land	159	..	159	159	159
C. Works	37,498	..	37,498	37,498	37,498
L. Earthwork	40,176	..	40,176	40,176	40,176
O. Miscellaneous	132	..	132	132	132
Total ..	77,965	..	77,965	77,965	77,965
(3) <i>Distributaries—</i>					
A. Preliminary expenses ..	100	..	100	100	100
B. Land	90,857	23	90,880	95,882	89,184
C. Works	4,80,827	1,034	4,81,861	4,97,835	4,76,765
L. Earthwork	5,50,597	1,065	5,51,662	5,63,501	5,48,521
N. Tanks and reservoirs ..	1,15,250	..	1,15,250	1,15,250	1,15,250
O. Miscellaneous	16,981	..	16,981	19,473	16,981
P. Maintenance	9,469	..	9,469	9,469	9,469
Total ..	12,64,081	2,122	12,66,203	13,01,510	12,56,270

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PENNAR RIVER CANALS SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account. (1)	DIRECT CHARGES.			Cost of construction as now estimated (construction esti- mate closed on 31st March 1894). (5)	Expendi- ture against closed estimate. (6)
	Previous. (2)	1930- 1931. (3)	Total. (4)		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—cont.					
(4) <i>Drainage and Protective Works</i> —					
B. Land	27,998	..	27,998	27,998	27,998
C. Works	67,264	..	67,264	67,264	67,264
L. Earthwork	2,37,122	..	2,37,122	2,37,122	2,37,122
O. Miscellaneous	1,599	..	1,599	1,599	1,599
Total ..	3,33,983	..	3,33,983	3,33,983	3,33,983
(5) <i>Special tools and plant</i> —	..	..	..	..	..
Total outlay on current sanc- tions	41,21,613	2,122	41,23,735	41,64,922	41,13,802
Old outlay	5,26,117	..	5,26,117	5,26,117	5,26,117
Total, Works ..	46,47,730	2,122	46,49,852	46,91,039	46,39,919
II. ESTABLISHMENT	9,68,653	671	9,69,324	9,82,205	9,66,740
III. TOOLS AND PLANT	1,44,521	20	1,44,541	1,45,497	1,44,476
Grand Total ..	57,60,904	2,813	57,63,717	58,18,741	57,51,135
V. <i>Losses</i> —RECEIPTS ON CAPITAL ACCOUNT	2,858	..	2,858	2,858	2,858
Net Total ..	57,58,046	2,813	57,60,859	58,15,883	57,48,277
<i>Apportionment</i> —					
Chargeable to 49. Irrigation ..	57,19,935	..	57,19,935	..	..
Chargeable to 55-A. Irrigation—					
1. Productive	38,111	2,813	40,924	..	..
Total ..	57,58,046	2,813	57,60,859	..	..

PENNAR RIVER CANALS SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	1,886	..	1,886	(1) Head works	15,572	..	15,572
6. Receipts from other canal produce	90,975	1,294	92,269	(2) Main canals and branches	1,07,135	7,682	1,14,717
8. Navigation	523	94	617	(3) Distributaries	2,57,816	1,172	2,58,988
9. Rents of buildings	14,057	487	14,544	(4) Drainage and protective works	36,367	2,375	38,742
10. Fines	11	..	11	(5) Special tools and plant	— 207	..	— 207
11. Miscellaneous	12,105	3,939	16,044	Add—Unclassifiable outlay	8,370	..	8,370
Recoveries of expenditure	..	17	17	Total ..	4,25,053	11,129	4,36,182
Deduct—Refunds	986	..	986	II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department	1,18,571	5,831	1,24,402	(1) Head works	4,90,238	11,847	5,02,085
Irrigation revenue realized in Civil Department	1,99,49,064	6,30,546	2,05,79,610	(2) Main canals and branches	13,38,901	39,832	13,78,733
Total, Direct Receipts	2,00,67,635	6,36,377	2,07,04,012	(3) Distributaries	11,98,186	27,759	12,25,945
II. INDIRECT RECEIPTS—				(4) Drainage and protective works	1,16,487	4,544	1,21,031
Share of land revenue collected in the Civil Department	24,64,378	66,937	25,31,310	(5) Special tools and plant	549	..	549
				Add—Unclassifiable outlay	23,236	..	23,236
				Total ..	31,67,597	83,982	32,51,579

Total, Public Works and Civil
Departments, Revenue .. 2,25,32,008 7,03,314 2,32,35,322

III. COMPENSATION	7,390	..	7,390
Total, Extensions and Improvements and Maintenance and Repairs	36,00,040	95,111	36,95,151
IV. ESTABLISHMENT	17,26,784	38,760	17,65,544
V. TOOLS AND PLANT	34,867	913	35,780
VI. REFUNDS OF REVENUE	1,907	..	1,907
Total, Direct Charges ..	53,63,598	1,34,784	54,98,382
Share of collection charges in the Civil Department	11,41,188	33,939	11,75,127
Indirect charges	2,78,568	951	2,79,519
Total, Direct and Indirect Charges ..	67,83,354	1,69,674	69,53,028
* Deduct—Old maintenance charges saved to Government	22,45,601	39,594	22,85,195
Net Total ..	45,37,753	1,30,080	46,67,833
Balance, net revenue ..	1,79,94,255	5,73,234	1,85,67,489
Grand Total ..	2,25,32,008	7,03,314	2,32,35,322

Total, Receipts .. 2,25,32,008 7,03,314 2,32,35,322

* Direct—

Extensions and improvements	3,909
Maintenance and repairs	25,744
Establishment	9,359
Tools and plant	285

Total, Direct .. 39,297

Indirect 297

Total, Direct and Indirect .. 39,594

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

PENNAR RIVER CANALS SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	97,96,045	Net revenue realized to end of 1929-1930	1,79,94,255
Total interest charges for the year 1930-1931	1,92,924*	Net revenue realized during 1930-1931	5,73,234
Balance, net revenue	85,78,520		
Total ..	1,85,67,489	Total ..	1,85,67,489
* Interest at 3.3252 per cent on the outlay to end of 1916-1917.	1,69,295		
Interest at 5.44 per cent on the outlay of Rs. 66,707 from 1917-1918 to end of 1929-1930 + half the outlay during 1930-1931	3,629		
Total ..	1,92,924		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	8,56,767	..	8,56,767
Leave and pension allowances	1,67,657	..	1,67,657
Audit and accounts	273	21	294
Total ..	10,14,697	21	10,14,718
REVENUE—			
Capitalization of abatement of land revenue	32,934	..	32,934
Leave and pension allowances	2,36,951	..	2,36,951
Audit and accounts	8,683	951	9,634
Total ..	2,78,568	951	2,79,519
Grand Total ..	12,93,265	972	12,94,237

PENNAR RIVER CANALS SYSTEM—*Canal Project*—cont.
No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	37,49,097	8,90,822	46,39,919	9,933	51,120	41,187	46,49,852	Superintending Engineer's Bezwada Circle Register No. 1 of November 1927.	7,670
Establishment	8,05,532	1,61,208	9,66,740	2,584	15,465	12,881	9,69,324	Superintending Engineer's Bezwada Circle Register No. 1 of January 1929.	15,760
Tools and plant	1,42,971	1,505	1,44,476	65	1,021	956	1,44,541	Superintending Engineer's Bezwada Circle Register No. 1 of July 1930.	21,810
Suspense account	..	..	..	..	..	..	..	Superintending Engineer's Bezwada Circle Register No. 2 of February 1931.	5,880
Total ..	46,97,600	10,53,535	57,51,135	12,582	67,606	55,024	57,63,717	Total ..	51,120
<i>Less—Receipts on Capital Account</i>	55	2,803	2,858	..	..	..	2,858		
Net Total ..	46,97,545	10,50,732	57,48,277	12,582	67,606	55,024	57,60,859		
<i>Indirect Charges.</i>									
Capitalized statement of land revenue	7,99,748	57,019	8,56,767	..	800	800	8,56,767		
Leave and pension allowances..	1,35,090	22,567	1,57,657	..	..	..	1,57,657		
Audit and accounts	..	195	195	99	512	413	294		
Total ..	9,34,838	79,781	10,14,619	99	1,312	1,213	10,14,718		
Grand Total ..	56,32,383	11,30,513	67,62,896	12,681	68,918	56,237	67,75,577		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

ARKENKOTA' CHANNEL—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-31.

Head of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1894).	Expenditure against closed estimate.
	Previous.	1930-31.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
C. Works	8,281	..	8,281	8,281	8,281
Total ..	8,281	..	8,281	8,281	8,281
(2) <i>Main Canals and Branches—</i>					
D. Regulators ..	14,621	..	14,621	14,621	14,621
F. (1) Other cross drainage works.	75,732	..	75,732	75,732	75,732
L. Earth work ..	15,871	..	15,871	15,871	15,871
Total ..	1,06,224	..	1,06,224	1,06,224	1,06,224
Total, Works ..	1,14,505	..	1,14,505	1,14,505	1,14,505
II. ESTABLISHMENT ..	26,264	..	26,264	26,264	26,264
III. TOOLS AND PLANT ..	..	..	..	..	..
* Grand Total ..	1,40,769	..	1,40,769	1,40,769	1,40,769

* Chargeable to "43. Minor Works and Navigation—Provincial."

ARKENKOTA CHANNEL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

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Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
Plantations	1,570	287	1,857	(1) Head works	1,046	84	1,130
Receipts from other canal produce ..	751	..	751	(2) Main canals and branches	36,413	..	36,413
Fines	1	..	1	(3) Distributaries	882	..	882
Miscellaneous	5,416	33	5,449	(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant	..	..	..
				<i>Add—Unclassifiable outlay</i> ..	11,475	..	11,475
				Total ..	49,816	84	49,900
Total, Revenue realized in Public Works Department	7,738	320	8,058	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	7,65,361	19,515	7,84,876	(1) Head works	4,453	— 87	4,366
				(2) Main canals and branches	1,43,149	4,929	1,48,078
				(3) Distributaries	2,514	..	2,514
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant	..	..	..
				<i>Add—Unclassifiable outlay</i> ..	1,73,223	..	1,73,223
				Total ..	3,23,339	4,842	3,28,181
Total, Direct Receipts	7,73,099	19,835	7,92,934	Total, Extensions and Improvements and Maintenance and Repairs	3,73,155	4,926	3,78,081
				IV. ESTABLISHMENT	90,612	1,421	92,033
				V. TOOLS AND PLANT	1,330	124	1,454
				VI. REFUNDS OF REVENUE	43	..	43
				<i>Deduct—RECOVERIES ON REVENUE ACCOUNT.</i>	5	..	5
				Total, Direct Charges ..	4,65,135	6,471	4,71,606

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

ARKENKOTA CHANNEL—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	RS.	RS.	RS.		RS.	RS.	RS.
Share of Land Revenue collected in the Civil Department	23,097	428	23,525	Share of collection charges in the Civil Department.	39,424	997	40,421
				Indirect Charges	11,610	49	11,659
Total, Public Works and Civil Departments, Revenue ..	7,96,196	20,263	8,16,459	Total, Direct and Indirect Charges ..	5,16,169	7,517	5,23,686
				Deduct—Old maintenance charge saved to Government*	21,364	1,129	22,493
				Net Total ..	4,94,805	6,388	5,01,193
Total, Receipts ..	7,96,196	20,263	8,16,459	Balance, net revenue	3,01,391	13,875	3,15,266
				Grand Total ..	7,96,196	20,263	8,16,459

* Direct—

Extensions and improvements	..	..	..	..	..	..	RS.
Maintenance and repairs	..	..	..	..	..	..	793
Establishment	..	..	..	..	..	..	100
Tools and plant	..	..	..	..	..	..	204
							23
							..
Total, Direct	..	..	..	..	..	..	1,120
Indirect	..	..	..	..	..	..	9
Total, Direct and Indirect	..	..	..	..	..	..	1,129

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

ARKENKOTA CHANNEL—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-31.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,69,734	Net revenue realized to end of 1929-1930	3,01,391
Total interest charges for the year 1930-1931	4,681	Net revenue realized during 1930-1931	13,875
Balance, net revenue	40,851		
Total ..	3,15,266	Total ..	3,15,266
Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	4,681		
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 + half the outlay during 1930-1931 ..	..		
Total ..	4,681		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Leave and pension allowances ..	3,676	..	3,676
Total ..	3,676	..	3,676
REVENUE—			
Leave and pension allowances ..	10,825	..	10,825
Audit and accounts	785	49	834
Total ..	11,610	49	11,659
Grand Total ..	15,286	49	15,335

ARKENKOTA CHANNEL—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	81,578	32,927	1,14,505	..	..	..	1,14,505		
Establishment	18,760	7,504	26,264	..	..	..	26,264		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,00,338	40,431	1,40,769	..	..	..	1,40,769		
Less—Receipts on capital account	..	..	..	..	..	..	..		
Net Total ..	1,00,338	40,431	1,40,769	..	..	..	1,40,769		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	2,626	1,050	3,676	..	..	..	3,676		
Total ..	2,626	1,050	3,676	..	..	..	3,676		
Grand Total ..	1,02,964	41,481	1,44,445	..	..	..	1,44,445		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

TIRUKKÖYILŪR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in March 1895).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. Works—					
(1) <i>Head Works—</i>					
C. Works	1,28,483	..	1,28,483	1,28,483	1,28,483
K. Buildings	1,256	..	1,256	1,256	1,256
Total ..	1,29,739	..	1,29,739	1,29,739	1,29,739
(2) <i>Main Canals and Branches—</i>					
B. Land	7,327	..	7,327	7,327	7,327
D. Regulators	9,304	..	9,304	9,304	9,304
E. Falls and weirs	19,421	..	19,421	19,421	19,421
F. River and hill torrent work	..	..	..	..	..
F. (1) Other cross drainage works	8,577	..	8,577	8,577	8,577
G. Bridges	1,453	..	1,453	1,453	1,453
H. Escapes	1,378	..	1,378	1,378	1,378
K. Buildings	1,970	..	1,970	1,970	1,970
L. Earthwork	1,06,858	..	1,06,858	1,06,858	1,06,858
N. Tanks and reservoirs	13,542	..	13,542	13,542	13,542
O. Miscellaneous	4,920	..	4,920	4,920	4,920
Total ..	1,74,750	..	1,74,750	1,74,750	1,74,750
(3) <i>Distributaries—</i>					
C. Works	12,298	..	12,298	12,298	12,298
L. Earthwork	1,588	..	1,588	1,588	1,588
O. Miscellaneous	..	..	..	..	..
Total ..	13,886	..	13,886	13,886	13,886
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Total, Works ..	3,18,375	..	3,18,375	3,18,375	3,18,375
II. ESTABLISHMENT	70,709	..	70,709	70,709	70,709
III. TOOLS AND PLANT	105	..	105	105	105
Grand Total ..	3,89,189	..	3,89,189	3,89,189	3,89,189
Apportionment chargeable to 49. Irrigation	33,500	..	33,500	..	..
Apportionment chargeable to 43. Irrigation—Provincial	3,33,259	..	3,33,259	..	..
Apportionment chargeable to 55-A. Irrigation— I. PRODUCTIVE	22,430	..	22,430	..	..
	3,89,189	..	3,89,189	..	..

TIRUKKÖYLUR ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total
I DIRECT RECEIPTS—	rs.	rs.	rs.	I. EXTENSIONS AND IMPROVEMENTS—	rs.	rs.	rs.
3. Sales of water	326	91	417	(1) Head works	4,831	194	5,025
5. Receipts from plantations ..	37,211	811	38,022	(2) Main canals and branches	53,688	188	53,876
6. Receipts from other canal produce	6,142	124	6,266	(3) Distributaries	55,361	2,140	57,501
9. Rents of buildings	693	17	710	(4) Drainage and protective works	20,015	..	20,015
Fines	2	..	2	(5) Special tools and plant	..	..	..
11. Miscellaneous	892	..	892	Total ..	1,33,895	2,522	1,36,417
Recoveries of expenditure ..	..	8	8	II. MAINTENANCE AND REPAIRS—			
Deduct—Refunds	370	..	370	(1) Head works	76,357	4,432	80,789
Total, Revenue realized in Public Works Department.	44,896	1,051	45,947	(2) Main canals and branches	2,95,234	2,169	2,97,403
Irrigation Revenue realized in Civil Department	22,85,612	77,525	23,63,137	(3) Distributaries	1,66,121	11,891	1,78,012
Total, Direct Receipts	23,30,508	78,575	24,09,084	(4) Drainage and protective works	8,680	..	8,680
II. INDIRECT RECEIPTS—				(5) Special tools and plant	..	..	..
Share of Land Revenue collected in the Civil Department ..	1,88,270	3,369	1,91,639	Add—Unclassifiable outlay ..	1,95,063	..	1,95,063
				Total ..	7,41,455	18,492	7,59,947

Total, Public Works and Civil Departments, Revenue	25,18,778	81,945	26,00,723	Total, Extensions and Improvements and Maintenance and Repairs	8,75,350	21,014	8,96,364
				IV. ESTABLISHMENT	2,52,010	8,186	2,60,196
				V. TOOLS AND PLANT	2,569	123	2,692
				VI. REFUNDS OF REVENUE	303	..	303
				<i>Deduct</i> —Recoveries on Revenue account ..	194	..	194
				Total, Direct Charges ..	11,30,038	29,323	11,59,361
				Share of collection charges in the Civil Department	1,23,694	4,045	1,27,739
				Indirect Charges	34,038	210	34,248
				Total, Direct and Indirect Charges ..	12,87,770	33,578	13,21,348
				* <i>Deduct</i> —Old maintenance charges saved to Government	1,18,788	6,621	1,25,409
				Net Total ..	11,68,982	26,957	11,95,939
				Balance, net revenue ..	13,49,796	54,988	14,04,784
Total, Receipts ..	25,18,778	81,945	26,00,723	Grand Total ..	25,18,778	81,945	26,00,723

* Direct—

						RS.
Extensions and improvements ..	..	..	..	..	..	1,972
Maintenance and repairs ..	..	..	..	..	..	2,960
Establishment ..	..	..	..	..	..	1,611
Tools and plant ..	..	..	..	..	..	29
				Total, Direct ..		6,572
Indirect ..	..	..	..	..	..	49
				Total, Direct and Indirect ..		6,621

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

TIRUKKÖYILŪR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	6,39,222	Net revenue realized to end of 1929-1930	13,49,796
Total interest charges for the year 1930-1931	• 13,415	Net revenue realized during 1930-1931	54,988
Balance, net revenue	7,52,147		
Total ..	14,04,784	Total ..	14,04,784
* Interest at 3.3252 per cent on the outlay to end of 1916-1917	12,195		
Interest at 5.44 per cent on the outlay of Rs. 22,429 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	1,220		
Total ..	13,415		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	105	..	105
Leave and pension allowances	9,731	..	9,731
Audit and accounts	165	..	165
Total ..	10,001	..	10,001
REVENUE—			
Capitalization of abatement of land revenue	290	..	290
Leave and pension allowances	32,094	..	32,094
Audit and accounts	1,654	210	1,864
Total ..	34,038	210	34,248
Grand Total ..	44,039	210	44,249

TIRUKKÖYLŪR ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		
Works	2,01,591	1,16,784	3,18,375	..	..	..	3,18,375		
Establishment	46,361	24,348	70,709	..	..	..	70,709		
Tools and plant	..	105	105	..	..	..	105		
Suspense account	..	..	..	..	..	..	..		
Total	2,47,952	1,41,237	3,89,189	..	..	..	3,89,189		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net Total	2,47,952	1,41,237	3,89,189	..	..	..	3,89,189		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	28	77	105	..	..	..	105		
Leave and pension allowances	6,490	3,241	9,731	..	..	..	9,731		
Audit and accounts	..	165	165	..	..	..	165		
Total	6,518	3,483	10,001	..	..	..	10,001		
Grand Total	2,54,470	1,44,720	3,99,190	..	..	..	3,99,190		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

SHATIATOPE ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (closed on 31st March 1895).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
C. Works	2,31,572	..	2,31,572	2,31,572	2,31,572
K. Buildings	4,819	..	4,819	4,819	4,819
Total ..	2,36,391	..	2,36,391	2,36,391	2,36,391
(2) <i>Main Canal and Branches—</i>					
A. Preliminary expenses—old outlay.	4,420	..	4,420	4,420	4,420
B. Land	1,42,441	..	1,42,441	1,44,970	1,40,970
D. Regulators	1,14,119	383	1,14,502	1,11,630	52,334
E. Falls and weirs	95,537	..	95,537	82,248	82,248
F. River and hill torrent works.	17,625	..	17,625	17,625	17,625
G. Bridges	30,975	..	30,975	30,975	30,975
H. Escapes	2,599	..	2,599	2,599	2,599
I. Navigation works	11,236	..	11,236	11,236	11,236
K. Buildings	11,003	..	11,003	11,153	8,176
L. Earthwork	1,74,611	82	1,74,693	1,73,953	1,73,253
N. Tanks and reservoirs	13,617	..	13,617	13,196	13,196
O. Miscellaneous	6,805	— 465	6,340	15,554	4,950
Total ..	6,24,988	..	6,24,988	6,19,562	5,41,982
(3) <i>Distributaries—</i>					
B. Land	1,770	..	1,770	1,770	1,770
C. Works	20,439	1,499	21,938	24,239	20,439
L. Earthwork	6,512	..	6,512	6,512	6,512
O. Miscellaneous	3,312	..	3,312	3,312	3,312
Total ..	32,033	1,499	33,532	35,833	32,033
(4) <i>Drainage—</i>					
C. Works	..	..	..	..	..
(5) <i>Special Tools and Plant—</i>					
Total works ..	8,93,412	1,499	8,94,911	8,91,786	8,10,406
II. ESTABLISHMENT	1,22,527	490	1,23,017	1,25,288	1,04,741
III. TOOLS AND PLANT	628	9	637	1,742	115
Grand Total ..	10,16,567	1,998	10,18,565	10,18,814	9,15,262
<i>Apportionment—</i>					
Chargeable to 49. Irrigation ..	5,03,811	..	5,03,811	..	..
Do. 43. do. ..	..	..	..	..	..
Provincial	4,07,014	..	4,07,014	..	..
Chargeable to 35. Provincial—					
Irrigation Works—Imperial.	4,420	..	4,420	..	..
Do. to 55-A. Irrigation—					
I. Productive	1,01,322	1,998	1,03,320	..	..
Total ..	10,16,567	1,998	10,18,565	..	..

SHATIATOPE ANICUT SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations.	18,293	426	18,719	(1) Head works	9,323	..	9,323
6. Receipts from other canal produce	6,123	191	6,314	(2) Main canals and branches	51,847	..	51,847
9. Rents of buildings	1,913	199	2,112	(3) Distributaries	28,400	..	28,400
10. Fines	4	..	4	(4) Drainage and protective works	828	..	828
11. Miscellaneous	2,012	..	2,012	(5) Special tools and plant	..	..	..
Recoveries of expenditure.	..	77	77	Add—Unclassifiable outlay	21,316	..	21,316
Deduct—Refunds	189	..	189	Total ..	1,11,714	..	1,11,714
Total, Revenue realized in Public Works Department.	28,156	893	29,049	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department ..	52,31,315	1,44,121	53,75,436	(1) Head works	1,14,244	2,827	1,17,071
Total, Direct Receipts ..	52,59,471	1,45,014	54,04,485	(2) Main canals and branches	3,46,018	4,469	3,50,487
				(3) Distributaries	1,38,575	9,339	1,47,914
				(4) Drainage and protective works	2,934	..	2,934
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	2,87,678	..	2,87,678
				Total ..	8,89,449	16,635	9,06,084
				Total, Extensions and Improvements and Maintenance and Repairs ..	10,01,163	16,635	10,17,798
				IV. ESTABLISHMENT	3,22,228	9,053	3,31,281

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

SHATIATOPE ANICUT SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
II. INDIRECT RECEIPTS—				V. TOOLS AND PLANT	3,192	97	3,289
Share of land revenue collect-				VI. REFUNDS OF REVENUE	249	..	249
ed in the Civil Department.	12,30,377	17,031	12,47,408	Deduct—Recoveries on Revenue account.	359	..	359
				Total, Direct Charges ..	13,26,473	25,785	13,52,258
				Share of collection charges in the Civil			
				Department	3,23,083	8,058	3,31,141
				Indirect charges	42,937	166	43,103
				Total, Direct and Indirect Charges ..	16,92,493	34,009	17,26,502
Total, Public Works and				*Deduct—Old maintenance charges saved			
Civil Departments,				to Government	39,594	2,205	41,799
Revenue	64,89,848	1,62,045	66,51,893	Net Total ..	16,52,899	31,804	16,84,703
				Balance, net revenue	48,36,949	1,30,241	49,67,190
				Grand Total ..	64,89,848	1,62,045	66,51,893
Total, Receipts ..	64,89,848	1,62,045	66,51,893				

* Direct—

Extensions and improvements	RS.
Maintenance and repairs	64
Establishment	1,580
Tools and plant	536
	9

Total, Direct .. 2,189

Indirect 16

Total, Direct and Indirect .. 2,205

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

SHATIATOPE ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	8,46,169	Net revenue realized to end of 1929-1930.	48,36,949
Total interest charges for the year 1930-1931.	36,001	Net revenue realized during 1930-1931.	1,30,241
Balance net revenue	40,85,020		
Total ..	49,67,190	Total ..	49,67,190

	RS.
Interest at 3.3252 per cent on the outlay to end of 1916-1917	30,434
Interest at 5.44 per cent on the outlay of Rs. 1,02,322 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	5,567
Total ..	36,001

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalized abatement of land revenue	43,574	..	43,574
Leave and pension allowances	14,732	..	14,732
Audit and accounts	830	15	845
Total ..	59,136	15	59,151
REVENUE—			
Capitalized abatement of land revenue	379	..	379
Leave and pension allowances	40,369	..	40,369
Audit and accounts	2,189	166	2,355
Total ..	42,937	166	43,103
Grand Total ..	1,02,073	181	1,02,254

SHATTAPOPE ANICUT SYSTEM—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	1,09,182	7,01,224	8,10,406	84,505	81,380	— 3,125	8,94,911		
Establishment	24,702	80,039	1,04,741	18,276	20,545	2,269	1,23,017		
Tools and plant	..	115	115	522	1,627	1,105	637		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,33,884	7,81,378	9,15,262	1,03,303	1,03,552	249	10,18,565	Mis. 235 I., 4th June 1925.	74,600
Less—Receipts on Capital account	..	..	..	..	..	..	..	Suppl. 120. Irrn., 26th February 1926.	2,980
Net Total ..	1,33,884	7,81,378	9,15,262	1,03,303	1,03,552	249	10,18,565	D.R. 113 of September 1930.	3,800
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	42,609	42,609	965	100	— 855	43,574		
Leave and pension allowances	3,457	11,210	14,667	65	..	— 65	14,732		
Audit and accounts	..	..	..	845	38	— 807	845		
Total ..	3,457	53,819	57,276	1,875	138	— 1,737	59,151	Total ..	81,380
Grand Total ..	1,37,341	8,35,197	9,72,538	1,05,178	1,03,690	— 1,488	10,77,716		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PALAR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works—</i>					
C. Works	2,08,736	..	2,08,736	2,08,736	2,08,736
K. Buildings	1,847	..	1,847	1,847	1,847
Total ..	2,10,583	..	2,10,583	2,10,583	2,10,583
(2) <i>Main Canals and Branches—</i>					
B. Land	7,263	..	7,263	7,263	7,263
D. Regulators	27,509	..	27,509	27,509	27,509
E. Falls and weirs	1,04,937	..	1,04,937	1,04,937	1,04,937
F. River and hill torrent works	547	..	547	547	547
F (1) Other cross drainage works	2,366	..	2,366	2,366	2,366
G. Bridges	13,977	..	13,977	13,977	13,977
H. Escapes	8,277	..	8,277	8,277	8,277
K. Buildings	5,231	..	5,231	5,231	5,231
L. Earthwork	1,90,142	..	1,90,142	1,90,142	1,90,142
N. Tanks and reservoirs ..	36,275	..	36,275	36,275	36,275
O. Miscellaneous	40,752	..	40,752	40,752	40,752
Total ..	4,37,276	..	4,37,276	4,37,276	4,37,276
(3) <i>Distributaries—</i>					
B. Land	7,776	..	7,776	7,776	7,776
C. Works	89,053	39	89,092	89,229	86,079
D. Regulators	1,914	..	1,914	1,914	1,914
E. Falls and weirs	4,362	..	4,362	4,362	4,362
F (1) Other cross drainage works	2,174	..	2,174	2,174	2,174
L. Earthwork	56,867	..	56,867	56,867	56,867
N. Tanks and reservoirs ..	8,369	..	8,369	8,369	8,369
O. Miscellaneous	4,680	..	4,680	4,680	4,680
Total ..	1,75,195	39	1,75,234	1,75,371	1,72,221
(5) Special tools and plant ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total outlay on current sanctions ..	8,23,054	39	8,23,093	8,23,230	8,20,080
Old outlay	10,26,978	..	10,26,978	10,26,978	10,26,978
Total, Works ..	18,50,032	39	18,50,071	18,50,208	18,47,058

PALAR ANICUT SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
II. ESTABLISHMENT	RS. 4,69,052	RS. 9	RS. 4,69,061	RS. 4,69,312	RS. 4,68,359
III. TOOLS AND PLANT	30,041	1	30,042	30,032	29,969
Grand Total ..	23,49,125	49	23,49,174	23,49,552	23,45,386
V. Less—RECEIPTS ON CAPITAL ACCOUNT	672	..	672	672	672
Net Total ..	23,48,453	49	23,48,502	23,48,880	23,44,714
Chargeable to 43. Provincial—Irrigation	23,36,184	..	23,36,184	..	..
Chargeable to 55-A. Irrigation Works—1. Productive	12,269	49	12,318	..	..
Total ..	23,48,453	49	23,48,502	..	..

PALAR ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
1. Water rates	3	1	4	(1) Head works	2,13,400	..	2,13,400
5. Receipts from plantations ..	23,455	474	23,929	(2) Main canals and branches	1,82,912	2	1,82,914
6. Receipts from other canal produce	45,853	261	46,114	(3) Distributaries	2,57,307	2,081	2,59,388
9. Rents of buildings	4,639	305	4,944	(4) Drainage and protective works	1,152	..	1,152
10. Fines	64	..	64	(5) Special tools and plant	..	..	..
11. Miscellaneous	32,513	328	32,841	Add—Unclassifiable outlay	32,342	..	32,342
Recoveries of expenditure	..	8	8	Total ..	6,87,113	2,083	6,89,196
Deduct—Refunds	1,634	..	1,634	II. MAINTENANCE AND REPAIRS—	1,64,986	11,631	1,76,617
Total, Revenue realized in Public Works Department	1,04,893	1,377	1,06,270	(1) Head works	10,34,396	3,549	10,37,945
Irrigation Revenue realized in Civil Department	75,28,381	2,28,972	77,57,353	(2) Main canals and branches	11,68,224	41,126	12,09,350
Total, Direct Receipts ..	76,33,274	2,30,349	78,63,623	(3) Distributaries	5,742	..	5,742
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	99,655	..	99,655
				Add—Unclassifiable outlay	..	..	..
				Total ..	24,73,003	56,306	25,29,309
				Total, Extensions and Improvements and Maintenance and Repairs	31,60,116	58,389	32,18,505

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH

PUBLIC WORKS DEPARTMENT.

PALAR ANICUT SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.		Charges.	TOTAL.	
	Previous.	1930-1931.		Previous.	1930-1931.
II. INDIRECT RECEIPTS—					
Share of land revenue collected in the Civil Department ..	RS. 10,81,298	RS. 16,842	IV. ESTABLISHMENT .. V. TOOLS AND PLANT .. VI. REFUNDS OF REVENUE .. Deduct—Recoveries on Revenue account ..	RS. 8,32,881 21,243 10,393 19	RS. 8,48,444 22,393 10,393 19
Total, Public Works and Civil Departments, Revenue ..	87,14,572	2,47,191	Total, Direct Charges .. Share of collection charges in the Civil Department .. Indirect charges ..	40,24,614 4,63,346 1,28,819	40,99,716 4,75,586 1,29,487
Total, Receipts ..	87,14,572	2,47,191	Total, Direct and Indirect Charges .. Deduct—Old maintenance charges saved to Government ..	46,16,779 3,07,649	47,04,789 3,11,553
			Balance, net revenue ..	43,09,130 44,05,442	43,98,336 45,68,527
			Net Total ..	84,106	84,106
			Grand Total ..	1,63,085 87,14,572	1,63,085 89,61,763
* Direct—					
Extensions and improvements			RS.	178	
Maintenance and repairs			..	2,909	
Establishment			..	709	
Tools and plant			..	77	
Indirect ..			Total, Direct ..	3,873	
			..	31	
			Total, Direct and Indirect ..	3,904	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PALAR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	48,15,299	Net revenue realized to end of 1929-1930.	44,05,442
Total interest charges for the year 1930-1931.	78,627*	Net revenue realized during 1930-1931.	1,63,085
		Balance, net interest charges ..	3,25,399
Total ..	48,93,926	Total ..	48,93,926

	RS.
* Interest at 3.3252 per cent on the outlay to end of 1916-1917	77,248
Interest at 5.44 per cent on the outlay of Rs. 25,354 from 1917-1918 to end of 1929-1930 and half the outlay during 1930-1931	1,379
Total ..	78,627

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	25,568	..	25,558
Leave and pension allowances	91,644	..	91,644
Audit and accounts	102	..	102
Total ..	1,17,304	..	1,17,304
REVENUE—			
Capitalization of abatement of land revenue.	2,554	84	2,638
Leave and pension allowances	1,21,432	..	1,21,432
Audit and accounts	4,833	584	5,417
Total ..	1,28,819	668	1,29,487
Grand Total ..	2,46,123	668	2,46,791

PALAR ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.	D.R. No. 269 of February 1930. North Arcot.	RS.
Works	15,22,878	3,24,180	18,47,058	3,013	3,150	137	18,50,071		3,150
Establishment	3,99,070	69,289	4,68,359	702	953	251	4,69,061		
Tools and plant	29,875	94	29,969	73	63	— 10	30,042		
Suspense account	..	..	..	..	..	..	..		
Total ..	19,51,823	3,93,563	23,45,386	3,788	4,166	378	23,49,174		
Less—Receipts on Capital Account ..	..	672	672	..	..	..	672		
Net Total ..	19,51,823	3,92,891	23,44,714	3,788	4,166	378	23,48,502		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	23,054	2,504	25,558	..	..	..	25,558		
Leave and pension allowances	81,976	9,668	91,644	..	..	..	91,644		
Audit and accounts	..	72	72	30	32	2	102		
Total ..	1,05,030	12,244	1,17,274	30	32	2	1,17,304		
Grand Total ..	20,56,853	4,05,135	24,61,988	3,818	4,198	380	24,65,806		

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

CHEYYAR ANICUT SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) Head Works—					
C. Works	56,860	..	56,860	56,860	56,860
Total	56,860	..	56,860	56,860	56,860
(2) Main Canals and Branches—					
A. Preliminary expenses ..	542	..	542	542	542
B. Land	443	..	443	443	443
D. Regulators	9,586	..	9,586	9,586	9,586
F. River and hill torrent works.	498	..	498	498	498
F. (1) Other cross drainage workc.	7,099	..	7,099	7,099	7,099
G. Bridges	11,934	..	11,934	11,934	11,934
K. Buildings	5,456	..	5,456	5,456	5,456
L. Earthwork	2,17,214	..	2,17,214	2,17,214	2,17,214
N. Tanks and reservoirs ..	29,756	..	29,756	29,756	29,756
O. Miscellaneous	2,098	..	2,098	2,098	2,098
Total	2,84,626	..	2,84,626	2,84,626	2,84,626
(3) Distributaries—					
B. Land	15,824	912	16,736	16,224	15,824
C. Works	31,556	— 312	31,244	30,664	10,184
L. Earthwork	26,622	..	26,622	26,622	26,622
O. Miscellaneous	1,257	..	1,257	1,257	1,257
Total	75,259	600	75,859	74,767	53,387
(5) Special tools and plant ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works	4,16,745	600	4,17,345	4,16,253	3,95,378
II. ESTABLISHMENT	1,03,079	138	1,03,217	1,02,883	97,668
III. TOOLS AND PLANT	715	15	730	783	365
Grand Total	5,20,539	753	5,21,292	5,19,919	4,93,401
Less—Receipts on capital account ..	50	..	50	50	50
Net Total	5,20,489	753	5,21,242	5,19,869	4,93,351
Apportionment—					
Chargeable to 49. Irrigation ..	58,224	..	58,224	..	..
Do. 43. Irrigation—Provincial.	3,98,916	..	3,98,916	..	..
Do. 55-A. Irrigation—1. Productive.	63,349	753	64,102	..	..
Total	5,20,489	753	5,21,242	..	..

CHEYYAR ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
1. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantation ..	13,732	296	14,028	(1) Head works	11,545	673	12,218
6. Receipts from other canal produce	10,799	306	11,105	(2) Main canals and branches	24,045	274	24,319
9. Rents of buildings	2,375	226	2,601	(3) Distributaries	99,763	1,708	1,01,471
11. Miscellaneous	8,231	480	8,711	(4) Drainage and protective works	1,919	..	1,919
Recoveries of expenditure	..	1	1	(5) Special tools and plant	..	..	..
Deduct—Refunds	22	1	23	Add—Unclassifiable outlay	39,441	..	39,441
Total, Revenue realized in Public Works Department.	35,115	1,308	36,423	Total ..	1,76,713	2,655	1,79,368
Irrigation Revenue realized in Civil Department	25,75,817	73,413	26,49,230	II. MAINTENANCE AND REPAIRS—			
Total, Direct Receipts ..	26,10,932	74,721	26,85,653	(1) Head works	53,268	6,167	59,435
				(2) Main canals and branches	1,56,794	11,367	1,68,161
				(3) Distributaries	5,33,066	17,485	5,50,551
				(4) Drainage and protective works	13,489	..	13,489
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	2,78,001	..	2,78,001
				Total ..	10,34,618	35,019	10,69,637
				Total, Extensions and Improvements and Maintenance and Repairs	12,11,331	37,674	12,49,005
				IV. ESTABLISHMENT	3,50,255	9,654	3,59,909
				V. TOOLS AND PLANT	3,880	948	4,828
				VI. REFUNDS OF REVENUE	832	..	832
				Deduct—Recoveries on Revenue account	9	..	9
				Total, Direct Charges ..	15,66,289	48,276	16,14,565

I I. INDIRECT RECEIPTS—

Share of land revenue collected in the Civil Department ..	2,31,443	4,735	2,36,178	Share of collection charges in the Civil Department	1,40,037	3,826	1,43,873
				Indirect charges	48,185	377	48,562
Total, Public Works and Civil Departments, Revenue ..	28,42,375	79,456	29,21,831	Total, Direct and Indirect Charges ..	17,54,511	52,489	18,07,000
				* Deduct—Old maintenance charges saved to Government	77,534	4,053	81,587
				Net Total ..	16,76,977	48,436	17,25,413
				Balance, net revenue	11,65,398	31,020	11,96,418
Total, Receipts ..	28,42,375	79,456	29,21,831	Grand Total ..	28,42,375	79,456	29,21,831

* Direct—

Extensions and improvements	Rs.
Maintenance and repairs	2,566
Establishment	640
Tools and plant	734
	81
Total, Direct ..	4,021
Indirect	32
Total, Direct and Indirect ..	4,053

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CHEYYAR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	8,35,091	Net revenue realized to end of 1929-1930	11,65,398
Total interest charges for the year 1930-1931	19,333 *	Net revenue realized during 1930-1931	31,020
Balance, net revenue	3,41,924		
Total ..	11,96,418	Total ..	11,96,418

* Interest at 3.3252 per cent on the outlay to end of 1916-1917	14,156
Interest at 5.44 per cent on the outlay of Rs. 95,160 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	5,177
Total ..	19,333

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue.	744	..	744
Leave and pension allowances	13,918	..	13,948
Audit and accounts	475	6	481
Total ..	1,51,367	6	15,173
REVENUE—			
Leave and pension allowances	45,944	..	45,944
Audit and accounts	2,241	377	2,618
Total ..	48,185	377	48,562
Grand total ..	63,352	383	63,735

CHEYYAR ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate
<i>Direct charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	3,20,865	74,508	3,95,373	21,972	20,880	—1,092	4,17,345		
Establishment	73,542	24,121	97,663	5,554	5,220	—334	1,03,217		
Tools and plant	..	365	365	325	418	53	730		
Suspense account	..	..	..	..	..	..	..		
Total ..	3,94,407	98,994	4,93,401	27,891	56,518	—1,373	5,21,292	Mis. 209 I., 26th July 1923.	20,880
Less—Receipts on capital account ..	..	50	50	..	..	..	50		
Net total ..	3,94,407	98,944	4,93,351	27,891	56,518	—1,373	5,21,242		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue ..	744	..	744	..	..	..	744	Total ..	20,880
Leave and pension allowances	10,296	3,376	13,672	276	..	—276	13,948		
Audit and accounts	..	262	262	219	..	—219	481		
Total ..	11,040	3,638	14,678	495	..	—495	15,173		
Grand Total ..	4,05,447	1,02,582	5,08,029	28,386	56,518	—1,868	5,36,415		

CUMBUM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1896).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) <i>Main Canals and Branches—</i>					
L. Earthwork	27,401	..	27,401	27,401	27,401
N. Tanks and reservoirs..	9,913	..	9,913	9,913	9,913
Total ..	37,314	..	37,314	37,314	37,314
(3) <i>Distributaries—</i>					
B. Land	1,136	..	1,136	1,136	1,136
C. Works	26,713	..	26,713	26,713	26,713
L. Earthwork	3,051	..	3,051	3,051	3,051
O. Miscellaneous	487	..	487	487	487
Total ..	31,387	..	31,387	31,387	31,387
(5) <i>Special tools and plant.</i>	..	..	..	..	..
Total, Works ..	68,701	..	68,701	68,701	68,701
II. ESTABLISHMENT	15,284	..	15,284	15,284	15,284
III. TOOLS AND PLANT ..	..	..	..	..	..
Grand Total ..	83,985	..	83,985	83,985	83,985
V. <i>Loss—RECEIPTS ON CAPITAL ACCOUNT</i>	..	..	..	..	..
(a) Net Total ..	83,985	..	83,985	83,985	83,985

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

CUMBUM TANK—*Tank Project*—cont.

No. 3.—Revenue Accounts for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Other canal produce	111	..	111	(1) Head works	418	..	418
II. Miscellaneous	11	..	11	(2) Main canals and branches	3,106	140	3,246
Total, Revenue realized in				(3) Distributaries	6,252	..	6,252
Public Works Department ..	122	..	122	(4) Drainage and protective works	..	..	..
Irrigation Revenue realized in				(5) Special tools and plant	..	..	..
Civil department	2,58,776	— 10,980	2,47,796	Add—Unclassifiable outlay	7,186	..	7,186
				Total ..	16,962	140	17,102
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	7,620	110	7,730
				(2) Main canals and branches	27,333	196	27,529
				(3) Distributaries	27,231	1,882	29,113
				(4) Drainage and protective works	1,047	..	1,047
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	24,128	..	24,128
				Total ..	87,359	2,188	89,547
Total, Direct Receipts.	2,58,898	— 10,980	2,47,918	Total, Extensions and Improvements and Maintenance and Repairs	1,04,321	2,328	1,06,649

CUMBUM TANK—*Tank Project*—cont.

No. 3.—Revenue Accounts for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT	30,780	558	31,338
Share of land revenue collected				V. TOOLS AND PLANT	867	9	876
in the Civil department ..	25,089	461	25,550	VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	1,35,968	2,895	1,38,863
Total, Public Works and Civil				Share of collection charges in the Civil department.	14,194	— 526	13,668
departments—Revenue ..	2,83,987	— 10,519	2,73,468	Indirect charges	6,882	23	6,905
				Total, Direct and Indirect Charges ..	1,57,044	2,392	1,59,436
				(a) Deduct—Old maintenance charges saved to			
				Government	33,008	954	33,962
				Net total ..	1,24,036	— 1,438	1,25,474
				Balance, net revenue	1,59,961	— 11,957	1,47,994
Total, Receipts ..	2,83,987	— 10,519	2,73,468	Grand total ..	2,83,987	— 10,519	2,73,468

(a) Extensions and improvements	..	..	..	..	..	..	..	RS.
Maintenance and repairs	..	..	..	..	..	..	..	793
Establishment	..	..	..	..	..	..	..	150
Tools and plant	..	..	..	..	..	..	..	3
Total, Direct charges	..	..	..	..	..	..	..	946
Indirect charges	..	..	..	..	..	..	..	8
Total, Direct and Indirect	..	..	..	..	..	..	..	954

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

CUMBUM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,24,389	Net revenue realized to end of 1929-1930	1,59,951
Total interest charges for the year 1930-1931	2,793 *	Net revenue realized during 1930-1931	— 11,957
Balance, net revenue	20,812		
Total ..	1,47,994	Total ..	1,47,994

* Interest at 3.3252 per cent on the outlay to end of 1916-1917	RS. 2,793
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	..
Total ..	2,793

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL.—			
Capitalization of abatement of land revenue	206	..	206
Leave and pension allowances	2,182	..	2,182
Total ..	2,388	..	2,388
REVENUE.—			
Capitalization of abatement of land revenue	2,801	..	2,801
Leave and pension allowances	3,909	..	3,909
Audit and account	172	23	195
Total ..	6,882	23	6,905
Grand Total ..	9,270	23	9,293

CUMBUM TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	37,314	31,387	68,701	..	..	..	68,701		
Establishment	8,495	6,789	15,284	..	..	..	15,284		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total	45,809	38,176	83,985	..	..	..	83,985		
Less—Receipts on Capital Account	..	..	..	..	..	..	..		
Net Total	45,809	38,176	83,985	..	..	..	83,985		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	206	206	..	..	..	206		
Leave and pension allowances	1,232	950	2,182	..	..	..	2,182		
Total	1,232	1,156	2,388	..	..	..	2,388		
Grand Total	47,041	39,332	86,373	..	..	..	86,373		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

POINEY ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in 1897).	Expenditure against closed estimate
	Previous.	1930-1931.	Total.		
I. Works—	RS.		RS.	RS.	RS.
(1) Head Works—					
C. Works	79,036	..	79,036	79,036	79,036
Total ..	79,036	..	79,036	79,036	79,036
(2) Main Canals and Branches—					
B. Land	..	..	..	..	..
D. Regulators	1,655	..	1,655	1,655	1,655
E. Falls and weirs	..	..	..	..	..
F. River and hill torrent works	..	..	..	..	..
K. Buildings	3,636	..	3,636	3,636	3,636
L. Earthwork	1,34,971	..	1,34,971	1,34,971	1,34,971
N. Tanks and reservoirs ..	6,368	..	6,368	6,368	6,368
Total ..	1,46,630	..	1,46,630	1,46,630	1,46,630
(3) Distributaries—					
B. Land	..	..	..	..	..
C. Works	8,597	..	8,597	8,597	8,597
L. Earthwork	..	..	..	..	..
Total ..	8,597	..	8,597	8,597	8,597
(5) Special tools and plant ..	..	..	..	..	..
Total, Works ..	2,34,263	..	2,34,263	2,34,263	2,34,263
II. Establishment	60,576	..	60,576	60,576	60,576
III. Tools and Plant	267	..	267	267	267
Grand Total ..	2,95,106	..	2,95,106	2,95,106	2,95,106
Apportionment—					
Chargeable to 49. Irrigation ..	40,713	..	40,713	..	..
Do. to 43. Irrigation—Provincial	2,30,767	..	2,30,767	..	..
Do. to 55-A. Irrigation—1. Productive ..	23,626	..	23,626	..	..
Total ..	2,95,106	..	2,95,106	..	..

POINNEY ANICUT SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	4,309	82	4,391	(1) Head works	7,359	5	7,364
6. Receipts from other canal produce	8,859	24	8,883	(2) Main canals and branches	22,967	104	23,071
9. Rents of buildings	1,201	97	1,298	(3) Distributaries	49,741	630	50,371
11. Miscellaneous	4,549	..	4,549	(4) Drainage and protective works	49,029	..	49,029
<i>Deduct—Refunds</i>	7	..	7	(5) Special tools and plant	..	..	..
Total, Revenue realized in Public Works Department	18,911	203	19,114	Total ..	1,29,026	739	1,29,835
Irrigation Revenue realized in Civil Department	27,09,524	86,183	27,95,707	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	78,148	2,801	80,949
				(2) Main canals and branches	96,576	2,680	99,256
				(3) Distributaries	2,87,133	7,314	2,94,447
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				<i>Add—Unclassifiable outlay</i>	2,76,594	..	2,76,594
				Total ..	7,38,451	12,795	7,51,246
				Total, Extensions and Improvements and Maintenance and Repairs	8,67,547	13,534	8,81,081
Total, Direct Receipts ..	27,28,435	86,386	28,14,821	IV. ESTABLISHMENT	2,57,748	3,947	2,61,695
II. INDIRECT RECEIPTS—				V. TOOLS AND PLANT	2,708	340	3,048
Share of Land Revenue collected in the Civil Department..	3,23,866	5,462	3,29,328	VI. REFUNDS OF REVENUE	461	..	461
				<i>Deduct—Recoveries on Revenue account</i>	5	..	5
				Total, Direct Charges ..	11,28,459	17,821	11,46,280
				Share of collection charges in the Civil Department	1,51,601	4,580	1,56,181
				Indirect charges	35,123	185	35,258

Total, Public Works and Civil Departments, Revenue ..	30,52,301	91,848	31,44,149	Total, Direct and Indirect Charges ..	13,15,183	22,536	13,37,719
				* Deduct—Old maintenance charges saved to Government	75,524	3,947	79,471
				Net Total ..	12,39,659	18,589	12,58,248
				Balance, net revenue	18,12,642	73,259	18,85,901
Total, Receipts ..	30,52,301	91,848	31,44,149	Grand Total ..	30,52,301	91,848	31,44,149

* Direct—

Extensions and improvements	rs.
Maintenance and repairs	3,057
Establishment	66
Tools and plant	715
	78
Total, Direct	3,916
Indirect	31
Total, Direct and Indirect	3,947

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

POINNEY ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-31.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	5,53,565	Net revenue realized to end of 1929-1930	18,12,642
Total interest charges for the year 1930-31	11,023 *	Net revenue during 1930-1931 ..	73,269
Balance, net revenue	13,21,313		
Total ..	18,85,901	Total ..	18,85,901

* Interest at 3.3252 per cent on the outlay to end of 1918-1917 ..	RS. 7,909
Interest at 5.44 per cent on the outlay of Rs. 57,247 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 ..	3,114
Total ..	11,023

No. 5.—Account of Indirect Charges for and to end of 1930-31.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	165	..	165
Leave and pension allowances	8,480	..	8,480
Audit and accounts	167	..	167
Total ..	8,812	..	8,812
REVENUE—			
Capitalization of abatement of land revenue ..	403	..	403
Leave and pension allowances	33,141	..	33,141
Audit and accounts	1,579	135	1,714
Total ..	35,123	135	35,258
Grand Total ..	43,935	135	44,070

POINEY ANICUT SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	1,83,435	50,828	2,34,263	..	..	..	2,34,263		
Establishment	42,189	18,387	60,576	..	..	..	60,576		
Tools and plant	..	267	267	..	..	..	267		
Suspense account	..	..	..	..	..	..	..		
Total ..	2,25,624	69,482	2,95,106	..	..	..	2,95,106		
Less—Receipts on Capital account ..	..	..	..	..	..	..	..		
Net Total ..	2,25,624	69,482	2,95,106	..	..	..	2,95,106		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	165	..	165	..	..	..	165		
Leave and pension allowances ..	5,907	2,573	8,480	..	..	..	8,480		
Audit and accounts	..	167	167	..	..	..	167		
Total ..	6,072	2,740	8,812	..	..	..	8,812		
Grand Total ..	2,31,696	72,222	3,03,918	..	..	..	3,03,918		

PERIYAR SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Amount of construction as now estimated (construction estimate closed on 31st March 1897).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses	87,181	..	87,181	87,181	87,181
B. Land	69,057	..	69,057	69,057	69,057
C. Works	43,42,594	..	43,42,594	44,28,032	43,42,232
K. Buildings	3,22,298	4,242	3,26,540	3,26,540	3,26,540
L. Earthwork	1,82,663	..	1,82,663	1,82,663	1,82,663
O. Miscellaneous ..	1,83,487	..	1,83,487	1,83,487	1,83,487
P. Maintenance ..	74,692	..	74,692	74,692	74,692
Total ..	52,61,972	4,242	52,66,214	53,51,652	52,65,852
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses.	24,650	..	24,650	24,650	24,650
B. Land	78,581	..	78,581	78,581	78,581
C. Masonry works ..	1,75,769	..	1,75,769	1,75,769	1,75,769
D. Regulators	1,20,170	..	1,20,170	1,20,170	1,20,170
E. Falls and weirs ..	20,759	..	20,759	20,759	20,759
F. (1) Other cross drainage works.	3,91,289	..	3,91,289	3,91,289	3,91,289
G. Bridges	72,797	..	72,797	72,797	72,797
H. Escapes	2,416	..	2,416	2,416	2,416
K. Buildings	33,814	..	33,814	33,814	33,814
L. Earthwork	5,71,271	..	5,71,271	5,71,271	5,71,271
O. Miscellaneous ..	21,211	..	21,211	21,211	21,211
P. Maintenance ..	85,862	..	85,862	85,862	85,862
Total ..	15,98,589	..	15,98,589	15,98,589	15,98,589
(3) <i>Distributaries—</i>					
A. Preliminary expenses	10,734	..	10,734	10,734	10,734
B. Land	98,820	..	98,820	98,820	98,820
C. Works	3,68,314	..	3,68,314	3,68,314	3,68,314
D. Regulators	22,401	..	22,401	22,401	22,401
E. Falls and weirs ..	86,010	..	86,010	86,010	86,010
F. (1) Other cross drainage works.	31,701	..	31,701	31,701	31,701
G. Bridges	20,208	..	20,208	20,208	20,208
K. Buildings	10,945	..	10,945	10,945	10,945
L. Earthwork	4,06,847	..	4,06,847	4,06,847	4,06,847
O. Miscellaneous ..	27,179	..	27,179	27,179	27,179
P. Maintenance ..	22,863	..	22,863	22,863	22,863
Total ..	11,06,022	..	11,06,022	11,06,022	11,06,022
(4) <i>Drainage and Protective works—</i>					
B. Land	16,179	..	16,179	16,179	16,179
C. Works	1,033	..	1,033	1,033	1,033
L. Earthwork	13,272	..	13,272	13,272	13,272
O. Miscellaneous ..	3,882	..	3,882	3,882	3,882
Total ..	34,366	..	34,366	34,366	34,366

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PERIYAR SYSTEM—*Tank Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Amount of construction as now estimated (construction estimate closed on 31st March 1927).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—cont.	RS.	RS.	RS.	RS.	RS.
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	80,00,949	4,242	80,05,191	80,90,629	80,04,829
II. ESTABLISHMENT ..	16,80,476	1,544	16,82,020	17,07,869	16,81,914
III. TOOLS AND PLANT ..	7,66,828	41	7,66,869	7,68,585	7,66,869
Grand Total ..	1,04,48,253	5,827	1,04,54,080	1,05,67,083	1,04,53,612
IV. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT.	21,311	..	21,311	21,311	21,311
(a) Net Total ..	1,04,26,942	5,827	1,04,32,769	1,05,45,772	1,04,32,301
Chargeable to 49. Irrigation works.	1,03,11,093	..	1,03,11,093	..	..
Do. to 55-A. Irrigation works—1. Productive.	1,15,849	5,827	1,21,676	..	..
Total ..	1,04,26,942	5,827	1,04,32,769	..	..

PERIYAR SYSTEM—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	rs.	rs.	rs.	I. EXTENSIONS AND IMPROVEMENTS—	rs.	rs.	rs.
3. Sales of water	250	50	300	(1) Head works	6,55,645	42,133	6,97,778
4. Water-supply of towns	4,373	..	4,373	(2) Main canals and branches	54,722	3,639	58,361
5. Receipts from plantations ..	55,231	7,075	62,306	(3) Distributaries	2,66,222	6,465	2,72,687
6. Receipts from other canal produce.	1,84,988	7,081	1,92,069	(4) Drainage and protective works ..	16,984	..	16,984
8. Receipts from navigation ..	13,805	2,667	16,472	(5) Special tools and plant	83	..	83
9. Rents of buildings	19,594	2,136	21,730	Total	9,93,656	52,237	10,45,893
10. Fines	221	15	236	II. MAINTENANCE AND REPAIRS—			
11. Miscellaneous	59,191	821	60,012	(1) Head works	4,28,230	19,709	4,47,939
Recoveries of expenditure	..	1,211	1,211	(2) Main canals and branches	7,56,113	68,572	8,24,685
Deduct—Refunds	10,748	29,310	40,058	(3) Distributaries	8,23,747	30,097	8,53,844
Total, Revenue realized in the Public Works Department	3,26,905	—8,254	3,18,651	(4) Drainage and protective works ..	85,383	..	85,383
Irrigation revenue realized in Civil Department	1,88,92,513	7,88,807	1,96,81,320	(5) Special tools and plant	15,102	..	15,102
Total, Direct Receipts	1,92,19,418	7,80,553	1,99,99,971	Total	21,08,575	1,18,378	22,26,953
				III. COMPENSATION	14,32,838	42,965	14,76,803
				Total, Extensions and Improvements and Maintenance and Repairs	45,36,069	2,13,580	47,49,649
				IV. ESTABLISHMENT	16,77,027	87,191	17,64,218
				V. TOOLS AND PLANT	83,295	2,058	85,353
				VI. REFUNDS OF REVENUE	2,619	..	2,619
				Deduct—Recoveries or Revenue account	94	..	94
				Total, Direct Charges	62,98,916	3,02,829	66,01,745

III. INDIRECT RECEIPTS—

III. INDIRECT RECEIPTS—				Share of collection charges in the Civil Department				9,63,317	40,456	10,03,773
Share of land revenue collected in the Civil Department				15,43,849	94,686	16,38,535	Indirect charges	2,26,204	2,168	2,28,372
Total, Public Works and Civil Departments, Revenue				2,07,63,267	8,75,239	2,16,38,506	Total, Direct and Indirect Charges ..	74,88,437	3,45,453	78,33,890
							Deduct—* Old maintenance charges saved to Government ..	10,39,211	35,830	10,75,041
							Net Total ..	64,49,226	3,09,623	67,58,849
							Balance, net revenue	1,43,14,041	5,65,616	1,48,79,657
Total, Receipts ..				2,07,63,267	8,75,239	2,16,38,506	Grand Total ..	2,07,63,267	8,75,239	2,16,38,506

* Direct—

								RS.
Extensions and improvements	..	..	..	..	..	..	..	4,474
Maintenance and repairs	..	..	..	..	..	..	..	21,422
Establishment	..	..	..	..	..	..	..	9,425
Tools and plant	..	..	..	..	..	..	..	250
Total, Direct ..								35,571
Indirect	..	..	..	..	..	..	..	259
Total, Direct and Indirect ..								35,830

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

PERIYAR SYSTEM—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,29,99,831	Net revenue realized to end of 1929-1930	1,43,14,041
Total interest charges for the year 1930-1931	* 3,49,684	Net revenue realized during 1930-1931	5,65,616
Balance, net revenue	15,30,142		
Total ..	1,48,79,657	Total ..	1,48,79,657
* Interest at 3.3252 per cent on the outlay to end of 1916-17 ..	3,42,301		
Interest at 5.44 per cent on the outlay of Rs. 1,35,715 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31	7,383		
Total ..	3,49,684		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—			
Capitalization of abatement of land revenue	RS. 1,36,458	RS. ..	RS. 1,36,458
Leave and pension allowances	2,33,396	..	2,33,396
Audit and accounts	890	43	933
Total ..	3,70,744	43	3,70,787
REVENUE—			
Capitalization of abatement of land revenue.	26,076	32	26,108
Leave and pension allowances	1,79,762	..	1,79,762
Audit and accounts	20,366	2,136	22,502
Total ..	2,26,204	2,168	2,28,372
Grand Total ..	5,96,948	2,211	5,99,159

PERIYAR SYSTEM—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.;	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	60,69,752	19,35,077	80,04,822	362	85,800	85,438	80,05,191	2507 L., 4th Sep. 1929/ ..	85,800
Establishment	13,46,177	3,35,737	16,81,914	106	25,955	25,849	16,82,020		
Tools and plant	7,28,291	38,578	7,66,869	..	1,716	1,716	7,66,869	Total ..	85,802
Suspense account	..	..	..	..	..	..	..		
Total ..	81,44,220	23,09,392	1,04,53,612	468	1,13,471	1,13,003	1,04,54,080		
Less—Receipts on Capital Account.	14,203	7,108	21,311	..	..	..	21,311		
Net Total ..	81,30,017	23,02,284	1,04,32,301	468	1,13,471	1,13,003	1,04,32,769		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue.	34,661	1,01,797	1,36,458	..	..	..	1,36,458		
Leave and pension allowances ..	1,88,466	44,930	2,33,396	..	..	..	2,33,396		
Audit and accounts	..	929	929	4	858	854	933		
Total ..	2,23,127	1,47,656	3,70,783	4	858	854	3,70,787		
Grand Total ..	83,53,144	24,49,940	1,08,03,084	472	1,14,329	1,13,857	1,08,03,566		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

KISTNA DELTA SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1938).	Expenditure against closed estimate.
	Previous.	1930–1931.	Total.		
I. WORKS—	RS.	RS	RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	12,732	..	12,732	12,732	12,732
C. Works	10,37,045	..	10,37,045	10,37,045	10,37,045
K. Buildings	1,02,702	..	1,02,702	1,02,702	1,02,702
O. Miscellaneous	44,028	..	44,028	44,028	44,028
Total ..	11,96,507	.	11,96,507	11,96,507	11,96,507
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses ..	1,853	..	1,853	1,853	1,853
B. Land	1,12,757	..	1,12,757	1,13,386	1,10,482
D. Regulators	5,87,485	2,856	5,90,351	5,91,704	5,73,460
E. Falls and weirs	18,119	..	18,119	18,119	18,119
F. River and hill torrent works..	4,77,313	..	4,77,313	4,77,313	4,77,313
F. (1) Other cross drainage works.	97,904	..	97,904	97,904	97,904
G. Bridges	1,49,021	8,728	2,67,749	2,27,724	1,99,021
H. Escapes	92,944	325	93,269	94,570	88,070
I. Navigation works	6,93,274	..	6,93,274	6,91,704	6,93,274
K. Buildings	1,52,031	878	1,52,909	1,54,009	1,52,909
L. Earthwork	19,95,955	184	19,96,139	20,03,103	19,95,674
N. Tanks and reservoirs	1,213	..	1,213	1,213	1,213
O. Miscellaneous	1,43,652	..	1,43,652	1,43,652	1,43,652
Total ..	45,73,521	12,981	45,86,502	46,19,264	45,52,944
(3) <i>Distributaries—</i>					
A. Preliminary expenses ..	4,171	..	4,171	4,171	4,171
B. Land	3,79,771	2,782	3,82,552	4,20,605	3,79,211
C. Works	6,86,394	13,448	6,99,842	7,56,738	6,70,688
D. Regulators	..	..	..	50	..
E. Falls and weirs	2,153	992	3,145	3,200	..
L. Earthwork	8,98,683	3,241	9,01,924	9,34,011	8,91,551
O. Miscellaneous	87,316	2,349	89,665	1,00,767	87,316
Total ..	20,58,488	22,812	20,81,300	22,19,542	20,32,932
(4) <i>Drainage and Protective Works—</i>					
A. Preliminary expenses ..	774	..	774	774	774
B. Land	1,93,288	..	1,93,288	1,93,288	1,93,288
C. Works	4,90,381	—1,086	4,89,295	4,89,295	4,89,295
K. Buildings	1,801	..	1,801	1,801	1,801
L. Earthwork	23,86,011	977	23,86,988	23,86,988	23,86,988
O. Miscellaneous	77,481	..	77,481	77,481	77,481
P. Maintenance	2,985	..	2,985	2,985	2,985
Unforeseen works	..	..	..	..	..
Total ..	31,52,721	—109	31,52,612	31,52,612	31,52,612

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KISTNA DELTA SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1898).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—cont.	RS.	RS.	RS.	RS.	RS.
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total ..	1,09,81,237	35,684	1,10,16,921	1,11,87,925	1,09,84,995
Old outlay ..	30,81,755	..	30,81,755	30,81,755	30,81,755
Total, Works ..	1,40,62,992	35,684	1,40,98,676	1,42,69,680	1,40,16,750
II. ESTABLISHMENT ..	33,60,096	11,263	33,71,359	34,24,908	33,48,721
II. TOOLS AND PLANT ..	7,16,656	342	7,16,998	7,21,421	7,16,362
Grand Total ..	1,81,39,744	47,289	1,81,87,033	1,84,16,009	1,80,81,833
V. Less—RECEIPTS ON CAPITAL ACCOUNT ..	21,812	..	21,812	21,812	21,812
Net Total ..	1,81,17,932	47,289	1,81,65,221	1,83,94,197	1,80,60,021
<i>Apportionment—</i>					
Chargeable to 49. Irrigation ..	1,55,95,783	..	1,55,95,783		
Chargeable to 55-A. Irrigation—	25,22,149	47,289	25,69,438		
1. Productive.					
Total ..	1,81,17,932	47,289	1,81,65,221		

KISTNA DELTA SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipt.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Sales of water	32,428	3,466	35,894	(1) Head works	1,56,102	278	1,56,380
4. Water-supply of towns ..	73,906	2,775	76,681	(2) Main canals and branches ..	6,00,557	14,646	6,15,203
5. Receipts from plantations ..	4,00,564	5,632	4,06,196	(3) Distributaries	6,44,234	11,110	6,55,344
6. Receipts from other canal produce	11,40,570	47,024	11,87,594	(4) Drainage and protective works.	1,93,243	4,623	1,97,866
7. Water power	1,281	..	1,281	(5) Special tools and plant ..	19,664	..	19,664
8. Navigation receipts	27,29,975	1,13,929	28,43,904	Total ..	16,13,800	30,657	16,44,457
9. Rents of buildings	89,560	3,046	92,606	II. MAINTENANCE AND REPAIRS—			
10. Fines	898	2	900	(1) Head works	13,37,052	1,12,312	14,49,364
11. Miscellaneous	1,30,668	8,797	1,39,465	(2) Main canals and branches ..	87,77,539	3,05,664	90,83,203
Recoveries of expenditure ..	..	1,408	1,408	(3) Distributaries	43,12,484	1,77,913	44,90,397
Deduct—Refunds	8,125	592	8,717	(4) Drainage and protective works.	12,46,488	75,967	13,72,455
Total, Revenue realized in Public Works Department	45,91,725	1,85,487	47,77,212	(5) Special tools and plant ..	2,30,755	..	2,30,755
Irrigation Revenue realized in Civil Department	14,10,15,016	37,95,574	14,48,10,590	Add—Unclassifiable outlay ..	9,10,934	..	9,10,934
Total, Direct Receipts ..	14,56,06,741	39,81,061	14,95,87,802	Total ..	1,68,65,252	6,71,856	1,75,37,108
II. INDIRECT REVENUE—				Total, Extensions and Improvements and Maintenance and Repairs ..	1,84,79,052	7,02,513	1,91,81,565
Share of land revenue collected in the Civil Department	92,01,786	1,88,314	93,90,100	IV. ESTABLISHMENT	1,13,16,753	3,26,063	1,16,42,816
Total, Public Works and Civil Departments—Revenue	15,48,08,527	41,69,375	15,89,77,902	V. TOOLS AND PLANT	19,25,786	6,742	19,32,528
Total, Receipts ..	15,48,08,527	41,69,375	15,89,77,902	VI. REFUNDS OF REVENUE	25,907	..	25,907
				Deduct—Recoveries on Revenue Account.	4,984	..	4,984
				Total, Direct Charges ..	3,17,42,514	10,35,318	3,27,77,832
				Share of collection charges in the Civil Department	78,48,085	1,95,638	80,43,723
				Indirect charges	15,91,306	8,643	15,99,949
				Total, Direct and Indirect Charges.	4,11,81,905	12,39,599	4,24,21,504
				Balance, net revenue	11,36,26,622	29,29,776	11,65,56,398
				Grand Total ..	15,48,08,527	41,69,375	15,89,77,902

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KISTNA DELTA SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,68,15,425	Net revenue realized to end of 1929-1931	11,36,26,622
Total interest charges for the year 1930-1931	6,64,268*	Net revenue realized during 1930-1931	29,29,776
Balance, net revenue	8,90,76,705		
Total ..	11,65,56,398	Total ..	11,65,56,398
* Interest at 3.3252 per cent on the outlay to end of 1916-17 ..	5,07,291		
Interest at 5.44 per cent on the outlay of Rs. 28,85,608 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31.	1,56,977		
Total ..	6,64,268		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue.	6,19,954	..	6,19,954
Leave and pension allowances	5,03,855	..	5,03,855
Audit and Accounts	18,972	357	19,329
Total ..	11,42,781	357	11,43,138
REVENUE—			
Capitalization of abatement of land revenue.	26,704	1,618	28,322
Leave and pension allowances	15,11,522	..	15,11,522
Audit and Accounts	53,080	7,025	60,105
Total ..	15,91,306	8,643	15,99,949
Grand Total ..	27,34,087	9,000	27,43,087

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KISTNA DELTA SYSTEM—

No. 6.—Statement comparing Charges to

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.
Works	94,90,888	45,25,862	1,40,16,750	81,926	2,52,930
Establishment	22,14,258	11,34,463	33,48,721	22,638	76,187
Tools and plant	6,60,944	55,418	7,16,362	636	5,059
Suspense account	..	..	..	..	..
Total ..	1,23,66,090	57,15,743	1,80,81,833	1,05,200	3,34,176
Less—Receipts on Capital Account.	15,400	6,412	21,812	..	..
Net Total ..	1,23,50,690	57,09,331	1,80,60,021	1,05,200	3,34,176
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue.	4,53,037	1,63,784	6,16,821	3,133	2,277
Leave and pension allowances.	3,87,938	1,15,833	5,03,771	84	..
Audit and Accounts ..	..	18,510	18,510	819	2,467
Total ..	8,40,975	2,98,127	11,39,102	4,036	4,744
Grand Total ..	1,31,91,665	60,07,458	1,91,99,123	1,09,236	3,38,920

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

Canal Project—cont.

date with Sanctioned Estimate.

SANCTIONS.		REMARKS.	
Unspent balance of estimate.	Total charges to date against old and current sanctions.	G.O. No. and date.	Amount of estimate.
RS.	RS.	<i>Direct Charges.</i>	RS.
1,71,004	1,40,98,676	Mis. 176 I., 22nd April 1925	6,200
53,549	33,71,359	Superintending Engineer, Bezwada Circle, Regr. No. 2 of October 1927.	4,774
4,423	7,16,998	Superintending Engineer, Bezwada Circle, Regr. No. 3 of February 1928.	9,030
..	..	Superintending Engineer, Bezwada Circle, Regr. No. 4 of March 1928.	6,605
2,28,976	1,81,87,033	Circle Register No. 2 of May 1928	4,900
..	21,812	Chief Engineer's sanction 7 of 1929-1930 ..	1,05,066
2,28,977	1,81,65,221	Bezwada Circle Register No. 3 of June 1929.	6,500
		Divisional Register No. 1 of July 1929 (Kistna Eastern Division).	3,200
		Divisional Register No. 1 of July 1929 (Kistna Western Division).	1,800
— 856	6,10,954	Bezwada Circle Register No. 6 of February 1930.	11,700
— 84	5,03,855	Bezwada Circle Register No. 7 of February 1930.	11,685
1,648	19,329	Bezwada Circle Register No. 8 of March 1930.	18,500
708	11,43,138	Circle Register No. 1 of April 1930	9,720
2,29,684	1,93,08,359	Kistna South Western Divisional Register No. 1 of April 1930.	2,500
		Divisional Register No. 2 of June 1930 (Kistna South Western).	1,430
		Divisional Register No. 3 of December 1930 (Kistna South Western).	4,890
		Circle Register No. 1 of December 1930 ..	83,030
		Do. No. 2 of January 1931 ..	10,300
		Divisional Circle Register No. 4 of February 1931 (Kistna South Western).	1,100
		Total ..	2,52,930

NANDIYAR CHANNEL SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in 1899).	Expenditure against closed estimate.
	Previous.	1930–1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) <i>Main Canals and Branches—</i>					
B. Land	..	..	..	..	..
D. Regulators	3,003	..	3,003	3,003	3,003
E. Falls and weirs	6,056	..	6,056	6,056	6,056
F. (1) Other cross drainage works.	20,155	..	20,155	20,155	20,155
G. Bridges	2,894	..	2,894	2,894	2,894
K. Buildings	15,879	..	15,879	15,879	15,879
L. Earthwork	2,067	..	2,067	2,067	2,067
N. Tanks and reservoirs.	514	..	514	514	514
O. Miscellaneous	908	..	908	908	908
Total ..	51,476	..	51,476	51,476	51,476
Total, Works ..	51,476	..	51,476	51,476	51,476
II. ESTABLISHMENT ..	11,755	..	11,755	11,755	11,755
III. TOOLS AND PLANT ..	..	..	..	..	..
(a) Grand Total ..	63,231	..	63,231	63,231	63,231

(a) Chargeable to "43. Minor Works and Navigation—Provincial".

NANDIYAR CHANNEL SYSTEM—Canal Project—cont.
No. 3.—Revenue Accounts for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantation	5,193	433	5,626	(1) Head works	4,619	2,250	6,869
6. Receipts from other canal produce ..	2,434	9	2,443	(2) Main canals and branches	6,287	1,603	7,890
9. Rent of buildings ..	46	5	51	(3) Distributaries	1,115	..	1,115
11. Miscellaneous ..	2,866	..	2,866	(4) Drainage and protective works	..	..	..
Deduct—Refunds ..	79	70	149	(5) Special tools and plant	..	..	..
				Total ..	12,021	3,853	15,874
Total, Revenue realized in the Public Works Department	10,460	377	10,837	II. MAINTENANCE AND REPAIRS—			
Irrigation revenue realized in the Civil Department.	1,53,148	12,465	1,65,613	(1) Head works	13,176	361	13,537
				(2) Main canals and branches	1,12,293	4,992	1,17,285
Total, Direct Receipts ..	1,63,608	12,842	1,76,450	(3) Distributaries	7,122	..	7,122
				(4) Drainage and protective works	175	..	175
II. INDIRECT RECEIPTS—				(5) Special tools and plant	..	..	..
Share of land revenue collected in the Civil Department	1,614	76	1,690	Add—Unclassifiable outlay	..	..	..
				Total ..	1,32,766	5,353	1,38,119
				Total, Extensions and Improvements and Maintenance and Repairs ..	1,44,787	9,206	1,53,993
				IV. ESTABLISHMENT	42,222	3,640	45,862
				V. TOOLS AND PLANT	663	88	751
				VI. DEDUCT RECOVERIES ON REVENUE ACCOUNT.	8	..	8
				Total, Direct Charges ..	1,87,664	12,934	2,00,598

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

NANDIYAR CHANNEL SYSTEM—*Canal Project*—cont.No. 3.—Revenue Accounts for and to end of 1930–1931—*cont.*

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
Total, Public Works and Civil Departments, Revenue	1,65,222	12,918	1,78,140	Share of collection charges in the Civil Department	7,734	627	8,361
				Indirect charges	4,652	92	4,744
				Total, Direct and Indirect Charges ..	2,00,050	13,653	2,13,703
				* Deduct—Old maintenance charges saved to Government	63,215	4,435	67,650
				Net Total ..	1,36,835	9,218	1,46,053
				Balance, net revenue ..	28,387	3,700	32,087
Total Receipts ..	1,65,222	12,918	1,78,140	Grand Total ..	1,65,222	12,918	1,78,140

* Deduct—

Extensions and Improvements	RS.
Maintenance and Repairs	2,836
Establishment	371
Tools and plant	1,166
	30
Total, Direct	4,403
Indirect	32
Total, Direct and Indirect	4,435

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

NANDIYAR CHANNEL SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	rs.		rs.
Total interest charges to end of 1929-1930	72,635	Net revenue realized to end of 1929-1930	28,387
Total interest charges for the year 1930-1931	* 2,186	Net revenue realized during 1930-1931	3,700
		Balance, net interest charges ..	42,684
Total ..	74,771	Total ..	74,771
* Interest at 3.3252 per cent on the outlay to end of 1916-17 ..	2,050	....	..
Interest at 5.44 per cent on the outlay of Rs. 1,590 from 1917-18 to end of 1929-30 plus half the outlay to end of 1930-31.	86	....	..
Total ..	2,136	Total ..	..

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	rs.	rs.	rs.
CAPITAL—			
Capitalization of abatement of land revenue.	838	..	838
Leave and pension allowances	1,646	..	1,646
Audit and accounts	..	..	..
Total ..	2,484	..	2,484
REVENUE—			
Capitalization of abatement of land revenue.	142	..	142
Leave and pension allowances	3,683	..	3,683
Audit and accounts	827	92	919
Total ..	4,652	92	4,744
Grand Total ..	7,136	92	7,228

NANDIYAR CHANNEL SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing charges to date with sanctioned estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	43,488	7,988	51,476	..	..	..	51,476		
Establishment	10,002	1,753	11,755	..	..	..	11,755		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	53,490	9,741	63,231	..	..	..	63,231		
Less—Receipts on Capital Account ..	..	..	..	..	..	..	..		
Net Total ..	53,490	9,741	63,231	..	..	..	63,231		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	818	20	838	..	..	..	838		
Leave and pension allowances	1,400	246	1,646	..	..	..	1,646		
Total ..	2,218	266	2,484	..	..	..	2,484		
Grand Total ..	55,708	10,007	65,715	..	..	..	65,715		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

GANJAM MINOR RIVERS SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (cost of construction estimate closed on 31st March 1900).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	rs.		rs.	rs.	rs.
I. Works—					
(1) <i>Head Works—</i>					
C. Works	3,301	..	3,301	3,301	3,301
Total ..	3,301	..	3,301	3,301	3,301
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses	7,382	..	7,382	7,382	7,382
B. Land	35,912	..	35,912	35,912	35,912
D. Regulators	8,218	..	8,218	8,218	8,218
E. Falls and weirs	11,676	..	11,676	11,676	11,676
F. (1) Other cross drainage works.	2,121	..	2,121	2,121	2,121
G. Bridges	15,686	..	15,686	15,686	15,686
H. Escapes	..	..	..	..	..
I. Navigation works	1,712	..	1,712	1,712	1,712
K. Buildings	27,201	..	27,201	27,201	27,201
L. Earthwork	..	..	..	..	..
M. Plantations	6,111	..	6,111	6,111	6,111
N. Tanks and reservoirs	2,221	..	2,221	2,221	2,221
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	1,18,240	..	1,18,240	1,18,240	1,18,240
(3) <i>Distributaries—</i>					
A. Preliminary expenses	..	..	..	..	..
B. Land	2,889	..	2,889	2,889	2,889
C. Works	54,440	..	54,440	54,440	54,440
L. Earthwork	11,610	..	11,610	11,610	11,610
O. Miscellaneous	404	..	404	404	404
Total ..	69,343	..	69,343	69,343	69,343
(4) <i>Drainage and Protective Works—</i>					
B. Land	7,646	..	7,646	7,646	7,646
C. Works	3,584	..	3,584	3,584	3,584
L. Earthwork	16,097	..	16,097	16,097	16,097
O. Miscellaneous	210	..	210	210	210
Total ..	27,537	..	27,537	27,537	27,537
(5) <i>Special tools and plant</i>	..	..	..	..	..
Add—Unclassifiable outlay	7,929	..	7,929	7,929	7,929
Total, Works ..	2,26,350	..	2,26,350	2,26,350	2,26,350

GANJAM MINOR RIVERS SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (cost of construction estimate closed on 31st March 1900).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
II. ESTABLISHMENT	49,426	..	49,426	49,426	49,426
II. TOOLS AND PLANT	417	..	417	417	417
Grand Total ..	2,76,193	..	2,76,193	2,76,193	2,76,193
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	..	..	..	..	..
Net Total ..	2,76,193	..	2,76,193	2,76,193	2,76,193
Chargeable to 43. Minor Works and Navigation—Provincial	2,60,706	..	2,60,706	..	..
Chargeable to 55-A. Irrigation Works—Unproductive	15,487	..	15,487	..	..
Total ..	2,76,193	..	2,76,193	..	..

GANJAM MINOR RIVERS SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
1. Water-rates from irrigation	62	..	62	(1) Head works	2,684	..	2,684
2. Owner's rates	139	..	139	(2) Main canals and branches ..	41,136	1,703	42,839
3. Receipts from sale of water	734	..	734	(3) Distributaries	81,465	..	81,465
5. Receipts from plantations	1,448	21	1,469	(4) Drainage and protective works ..	..	..	..
6. Receipts from other canal produce ..	6,336	178	6,514	(5) Special tools and plant ..	5,713	..	5,713
11. Miscellaneous	1,188	..	1,188	Total ..	1,30,998	1,703	1,32,701
Total Revenue realized in Public Works Department	9,907	199	10,106	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	22,33,075	56,621	22,89,706	(1) Head works	12,919	..	12,919
Total, Direct Receipts	22,42,982	56,830	22,99,812	(2) Main canals and branches ..	5,98,220	50,154	6,48,374
				(3) Distributaries	3,03,805	21,796	3,25,601
				(4) Drainage and protective works ..	4,817	..	4,817
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	2,985	..	2,985
				Total ..	9,22,746	71,950	9,94,696
				Total, Extensions and Improvements and Maintenance and Repairs ..	10,53,744	73,653	11,27,397

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

GANJAM MINOR RIVERS SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	RS.	RS.	RS.	IV. ESTABLISHMENT	RS.	RS.	RS.
Share of Land Revenue collected in the Civil Department	4,54,708	7,800	4,62,508	V. TOOLS AND PLANT	3,16,778	20,710	3,37,488
Total, Public Works and Civil Departments, Revenue	26,97,690	64,630	27,62,320	VI. REFUNDS OF REVENUE	8,411	1,235	9,646
Total, Receipts ..	26,97,690	64,630	27,62,320	Deduct—Recoveries on Revenue account.	5	..	5
					275	..	275
				Total, Direct Charges ..	13,78,663	95,598	14,74,261
				Share of collection charges in the Civil Department	1,34,382	3,220	1,37,602
				Indirect charges	50,132	737	50,869
				Total, Direct and Indirect Charges.	15,63,177	99,555	16,62,732
				* Deduct—Old maintenance charges saved to Government	95,806	5,960	1,01,766
				Net Total ..	14,67,371	93,595	15,60,966
				Balance, Net revenue	12,30,319	— 28,965	12,01,354
				Grand Total ..	26,97,690	64,630	27,62,320

• Direct—

Extensions and improvements	RS.
Maintenance and repairs	1,529
Establishment	3,126
Tools and plant	1,180
	78
Total, Direct ..	5,913
Indirect	47
Total, Direct and Indirect ..	5,960

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

GANJAM MINOR RIVERS SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,88,548	Net revenue realized to end of 1929-1930	12,30,319
Total interest charges for the year 1930-1931—	* 9,565	Net revenue realized during 1930-1931	— 28,965
Balance, net revenue	9,03,241	Total ..	12,01,354
Total ..	12,01,354		
* Interest at 3·3252 per cent on the outlay to end of 1916-1917 ..	8,585		
Interest at 5·44 per cent on the outlay of Rs. 18,011 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931.	980		
	9,565		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	4,084	..	4,084
Leave and pension allowances	6,830	..	6,830
Audit and accounts	103	..	103
Total ..	11,017	..	11,017
REVENUE—			
Capitalization of abatement of land revenue ..	9,350	..	9,350
Leave and pension allowances	37,017	..	37,017
Audit and accounts	3,765	737	4,502
Total ..	50,132	737	50,869
Grand Total ..	61,149	737	61,886

GANJAM MINOR RIVERS SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with sanctioned estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.	RS.	RS.				RS.		
Works	1,02,797	1,23,553	2,26,350	..	..	..	2,26,350		
Establishment	23,382	26,044	49,426	..	..	..	49,426		
Tools and plant	..	417	417	..	..	..	417		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,26,179	1,50,014	2,76,193	..	..	..	2,76,193		
<i>Less—Receipts on Capital account</i> ..	..	..	..	..	..	..	..		
Net Total ..	1,26,179	1,50,014	2,76,193	..	..	..	2,76,193		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue. ..	..	4,084	4,084	..	..	..	4,084		
Leave and pension allowances ..	3,274	3,556	6,830	..	..	..	6,830		
Audit and accounts	..	103	103	..	..	..	103		
Total ..	3,274	7,743	11,017	..	..	..	11,017		
Grand Total ..	1,29,453	1,57,757	2,87,210	..	..	..	2,87,210		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY

LOWER COLEROON ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated. (Construction estimate closed on 30th June 1903.)	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) Head Works—					
B. Land	22,564	1	22,565	22,565	22,565
C. Works	16,16,350	40	16,16,390	16,16,390	16,16,390
K. Buildings	15,206	..	15,206	15,206	15,206
L. Earthwork	40,106	..	40,106	40,106	40,106
O. Miscellaneous	7,407	— 1	7,406	7,406	7,406
Total ..	17,01,633	40	17,01,673	17,01,673	17,01,673
(2) Main Canals and Branches—					
A. Preliminary expenses	3,089	..	3,089	3,089	3,089
B. Land	49,820	11	49,831	52,995	26,470
C. Works	2,144	..	2,144	2,144	2,144
D. Regulators	1,63,616	..	1,63,616	1,66,853	1,49,975
E. Falls and weirs	13,410	..	13,410	13,410	13,410
F. (1) Other cross-drainage works	21,606	..	21,606	21,606	21,606
G. Bridges	12,363	..	12,363	12,363	12,363
K. Buildings	2,218	..	2,218	2,218	2,218
L. Earthwork	3,93,736	9,917	4,03,653	3,95,009	2,94,497
N. Tank and reservoirs	4,515	..	4,515	4,515	4,515
O. Miscellaneous	6,090	1,455	7,545	26,300	4,815
Total ..	6,72,607	11,383	6,83,990	7,00,502	5,35,102
(3) Distributaries—					
B. Land	5,008	..	5,008	5,008	5,008
C. Works	25,575	..	25,575	25,575	25,575
L. Earthwork	1,012	..	1,012	1,012	1,012
Total ..	31,595	..	31,595	31,595	31,595
(4) Drainage and Protective Works—					
B. Land	37,013	..	37,013	37,013	37,013
C. Works	58,443	..	58,443	58,443	58,443
L. Earthwork	76,522	..	76,522	76,522	76,522
O. Miscellaneous	1,329	..	1,329	1,329	1,329
Total ..	1,73,307	..	1,73,307	1,73,307	1,73,307
(5) Special Tools and Plant—					
Provision for unforeseen works	..	..	..	..	..
Total, Works ..	26,22,766	8,331	26,31,097	26,47,609	24,82,209

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.No. 2.—Capital Account for and to end of 1930-1931—*cont.*

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated. (Construction estimate closed on 30th June 1903.)	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
II. ESTABLISHMENT	5,03,122	2,722	5,05,844	5,12,450	4,71,100
III. TOOLS AND PLANT	17,221	48	17,269	19,391	16,083
Grand Total	31,43,109	11,101	31,54,210	31,79,450	29,69,392
<i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT	1,153	638	1,791	1,791	1,791
Net Total	31,41,956	10,463	31,52,419	31,77,659	29,67,601
<i>Apportionment</i> —					
Chargeable to 49. Irrigation	3,81,952	..	3,81,952	..	..
Chargeable to 43. Irrigation—Provincial ..	14,89,605	..	14,89,605	..	..
Chargeable to 55-A. Irrigation—Productive ..	12,70,399	10,463	12,80,862	..	..
Total	31,41,956	10,463	31,52,419	..	..

LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
2. Owners' rates ..	123	..	123	(1) Head works	1,72,373	..	1,72,373
3. Sales of water ..	852	92	944	(2) Main canals and branches	6,98,717	49,161	7,47,878
4. Water-supply of town	408	509	917	(3) Distributaries	56,883	3,186	60,069
5. Receipts from plantations ..	57,765	3,878	61,643	(4) Drainage and protective works	6,124	..	6,124
6. Receipts from other canal produce ..	43,782	1,044	44,826	(5) Special tools and plant	— 1,800	..	— 1,800
8. Navigation receipts ..	..	4	4	Add—Unclassifiable outlay	24,873	..	24,873
9. Rents of buildings.	5,405	515	5,920	Total ..	9,57,170	52,347	10,09,517
11. Miscellaneous ..	21,679	1,594	23,273	II. MAINTENANCE AND REPAIRS—			
Recoveries of expenditure.	..	833	833	(1) Head works	2,02,629	7,288	2,09,917
Deduct—Refunds ..	1,260	69	1,329	(2) Main canals and branches	17,22,004	1,00,646	18,22,650
Total, Revenue realized in Public Works Department	1,28,754	8,400	1,37,154	(3) Distributaries	3,48,747	3,854	3,52,601
Irrigation revenue realized in Civil Department ..	1,72,76,387	3,96,183	1,76,72,570	(4) Drainage and protective works	26,619	4,583	31,202
Total, Direct Receipts ..	1,74,05,141	4,04,583	1,78,09,724	(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	4,82,053	..	4,82,053
				Total ..	27,82,052	1,16,371	28,98,423
				Total, Extensions and Improvements and Maintenance and Repairs	37,39,222	1,68,718	39,07,940
				IV. ESTABLISHMENT	11,05,867	64,347	11,70,214
				V. TOOLS AND PLANT	15,855	987	16,842
				VI. REFUNDS OF REVENUE	423	..	423
				Deduct—Recoveries on revenue account	3,094	..	3,094
				Total, Direct Charges ..	48,58,273	2,34,052	50,92,325

LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931—*cont.*

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	rs.	rs.	rs.		rs.	rs.	rs.
Share of land revenue collected in the Civil Department ..	39,89,248	51,515	39,90,763	Share of collection charges in the Civil Department	10,60,782	22,385	10,83,167
				Indirect charges	1,57,105	1,687	1,58,792
Total, Public Works and Civil Departments, Revenue	2,13,44,389	4,56,098	2,18,00,487	Total, Direct and Indirect Charges ..	60,76,160	2,58,124	63,34,284
				* Deduct—Old maintenance charges saved to Government	1,72,781	9,774	1,82,555
				Net Total ..	59,03,379	2,48,350	61,51,729
				Balance, net revenue	1,54,41,010	2,07,748	1,56,48,758
Total, Receipts ..	2,13,44,389	4,56,098	2,18,00,487	Grand Total ..	2,13,44,389	4,56,098	2,18,00,487

* Direct—

	rs.
Extensions and improvements	2,427
Maintenance and repairs	4,858
Establishment	2,379
Tools and plant	42
Total, Direct ..	9,701
Indirect	73
Total, Direct and Indirect ..	9,774

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

LOWER COLEROON ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	27,99,131	Net revenue realized to end of 1929-1930.	1,54,41,010
Total interest charges for the year 1930-1931.	* 1,31,669	Net revenue realized during 1930-1931.	2,07,748
Balance, net revenue ..	1,27,17,958		
Total ..	1,56,48,758	Total ..	1,56,48,758
* Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	62,168		
Interest at 5.44 per cent on the outlay of Rs. 12,77,590 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 ..	69,501		
Total ..	1,31,669		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue.	33,241	..	33,241
Leave and pension allowances	45,917	..	45,917
Audit and accounts	10,743	83	10,826
Total ..	89,901	83	89,984
REVENUE—			
Capitalization of abatement of land revenue.	16,580	..	16,580
Leave and pension allowances	1,22,721	..	1,22,721
Audit and accounts	17,804	1,687	19,491
Total ..	1,57,105	1,687	1,58,792
Grand Total ..	2,47,006	1,770	2,48,776

LOWER COLEROON ANICUT SYSTEM—Canal Project—cont.
No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	10,67,518	14,14,691	24,82,209	1,48,888	1,65,400	16,512	26,31,097		
Establishment	2,32,529	2,38,471	4,71,100	34,744	41,350	6,606	5,05,844		
Tools and plant	14,059	2,024	16,083	1,186	3,308	2,122	17,269		
Suspenses account	..	..	..	..	..	..	..		
Total ..	13,14,206	16,55,186	29,69,392	1,84,818	2,10,058	25,240	31,54,210		
Less—Receipts on Capital Account.	..	1,791	1,791	..	..	..	1,791		
Net Total ..	13,14,206	16,53,395	29,67,601	1,84,818	2,10,058	25,240	31,52,419		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue.	10,946	20,601	31,547	1,694	..	— 1,694	33,241	Mis. 235 I., dated 4th June 1925.	1,65,400
Leave and pension allowances.	32,568	13,304	45,872	45	..	— 45	45,917		
Audit and accounts	..	9,337	9,337	1,489	..	— 1,489	10,826		
Total ..	43,514	43,242	86,756	3,228	..	— 3,228	89,984		
 Grand Total ..	 13,57,720	 16,96,637	 30,54,357	 1,88,046	 2,10,058	 22,012	 32,42,403	 Total ..	 1,65,400

IRRIGATION BRANCH.

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

DIVI PUMPING SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st October 1913).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
1	2	3	4	5	6
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. { Old outlay	16,954	..	16,954	16,954	16,954
{ Preliminary expenses	383	..	383	383	383
B. Land	11,209	1,136	12,345	12,345	12,345
C. Works	1,86,542	7,715	1,94,257	1,94,257	1,94,257
K. Buildings	4,22,945	4,681	4,27,626	4,27,626	4,27,626
L. Earthwork	706	1	706	706	706
O. Miscellaneous	15,520	1,226	16,746	16,746	16,746
P. Maintenance	4,070	..	4,070	4,070	4,070
Unforeseen Works	..	..	..	..	..
Total ..	6,58,328	14,759	6,73,087	6,73,087	6,73,087
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses	..	..	..	..	..
B. Land	39,470	..	39,470	39,470	39,470
D. Regulators	28,848	..	28,848	28,848	28,848
E. Falls and weirs	..	..	..	..	..
F. River and hill torrent works.	..	..	..	..	..
F. (1) Other cross drainage works.	..	..	..	..	..
G. Bridges	37,526	..	37,526	37,526	37,526
H. Escapes	..	..	..	..	..
I. Navigation works	..	..	..	..	..
K. Buildings	2,041	..	2,041	2,041	2,041
L. Earthwork	1,14,532	..	1,14,532	1,14,532	1,14,532
N. Tanks and reservoirs	..	..	..	..	..
O. Miscellaneous	2,442	..	2,442	2,442	2,442
P. Maintenance	4,516	..	4,516	4,516	4,516
Unforeseen Works	..	..	..	..	..
Total ..	2,29,375	..	2,29,375	2,29,375	2,29,375
(3) <i>Distributaries—</i>					
A. Preliminary expenses	7,997	..	7,997	7,997	7,997
B. Land	43,827	..	43,827	43,827	43,827
C. Works	27,789	..	27,789	27,789	27,789
L. Earthwork	81,332	..	81,332	81,332	81,332
O. Miscellaneous	11,416	..	11,416	11,416	11,416
Unforeseen works	..	..	..	..	..
Total ..	1,72,361	..	1,72,361	1,72,361	1,72,361

DIVI PUMPING SYSTEM—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st October 1913).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
1	2	3	4	5	6
I. WORKS—cont.	RS.	RS.	RS.	RS.	RS.
(4) <i>Drainage and Protective Works</i> —					
A. Preliminary expenses ..					
B. Land	3,467	1,059	4,526	5,668	3,408
C. Works	78,000	231	78,231	78,772	76,112
L. Earthwork	14,900	154	15,054	18,829	10,549
O. Miscellaneous	1,007	..	1,007	2,739	939
P. Maintenance	..	..	..	..	..
Lump sum provision	..	..	..	..	..
Total ..	97,374	1,444	98,818	1,06,008	91,008
(5) <i>Special tools and plant.</i>	3,41,038	..	3,41,038	3,41,038	3,41,038
Total Works ..	14,98,471	16,203	15,14,674	15,21,864	15,06,864
II. ESTABLISHMENT	3,92,502	5,114	3,97,616	4,00,083	3,95,545
III. TOOLS AND PLANT	6,77,303	156	6,77,459	6,77,710	6,77,410
Grand Total ..	25,68,276	21,473	25,89,749	25,99,657	25,79,819
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	490	..	490	490	490
Net Total ..	25,67,786	21,473	25,89,259	25,99,167	25,79,329
Apportionment—					
Chargeable to 49. Irrigation ..	19,56,450	..	19,56,450	..	..
Chargeable to 43. Irrigation—Provincial.	16,954	..	16,954	..	..
Chargeable to 55-A. Irrigation—1. Productive.	5,94,382	21,473	6,15,855	..	..
Total ..	25,67,786	21,473	25,89,259	..	..

DIVI PUMPING SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Sale of water	..	..	..	(1) Head works	45,328	6,568	51,896
4. Water-supply of towns ..	..	..	..	(2) Main canals and branches ..	4,096	107	4,203
5. Receipts from plantations ..	787	..	787	(3) Distributaries	14,419	1,820	16,239
6. Receipts from other canal produce.	23,193	1,710	24,903	(4) Drainage and protective works ..	5,995	..	5,995
8. Navigation receipts	12,906	3,645	16,551	(5) Special tools and plant ..	689	..	689
9. Rents of buildings	9,984	1,466	11,450	Total ..	70,527	8,495	79,022
10. Fines	..	..	..	II. MAINTENANCE AND REPAIRS—			
11. Miscellaneous	779	18	797	(1) Head works	14,00,082	80,268	14,80,350
Recoveries of expenditure	..	19	19	(2) Main canals and branches ..	1,58,203	27,002	1,85,205
Deduct—Refunds	234	33	267	(3) Distributaries	76,906	4,331	81,237
Total, Revenue realized in Public Works Department.	47,415	6,825	54,240	(4) Drainage and protective works ..	16,543	241	16,784
Irrigation revenue realized in Civil Department	29,53,889	1,66,479	31,20,358	(5) Special tools and plant ..	20,730	..	20,730
				Add—Unclassifiable outlay ..	..	..	..
Total, Direct Receipts ..	30,01,304	1,73,304	31,74,608	Total ..	16,72,464	1,11,842	17,84,306
II. INDIRECT RECEIPTS—				Total, Extensions and Improvements and Maintenance and Repairs.	17,42,991	1,20,337	18,63,328
Share of land revenue collected in the Civil Department.	7,88,586	87,205	8,75,791	IV. ESTABLISHMENT	6,98,689	48,779	7,47,468
Total, Public Works and Civil Departments, Revenue.	37,89,890	2,60,509	40,50,399	V. TOOLS AND PLANT	67,739	1,155	68,894
Total, Receipts ..	37,89,890	2,60,509	40,50,399	VI. REFUNDS OF REVENUE	15	..	15
				Deduct—Recoveries on Revenue account.	176	..	176
				Total, Direct Charges ..	25,09,258	1,70,271	26,79,529
				Share of collection charges in the Civil Department.	1,54,860	9,191	1,64,051
				Indirect charges	88,238	1,257	89,495
				Total, Direct and Indirect Charges.	27,52,356	1,80,719	29,33,075
				* Deduct—Old maintenance charges saved to Government.	3,10,478	16,263	3,26,741
				Net Total ..	24,41,878	1,64,456	26,06,334
				Balance, net revenue ..	13,48,012	96,053	14,44,065
				Grand Total ..	37,89,890	2,60,509	40,50,399

* Direct—	RS.	Direct—cont.	RS.
Extensions and improvements	49	Tools and plant	117
Maintenance and repairs	12,131	Total, Direct	16,141
Establishment	3,844	Indirect	122
		Total, Direct and Indirect ..	16,263

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

DIVI PUMPING SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	16,91,491	Net revenue realized to end of 1929-1930.	13,48,012
Total interest charges for the year 1930-1931.	* 1,00,086	Net revenue realized during 1930-1931.	96,053
		Balance net interest charges ..	3,47,512
Total ..	17,91,577	Total ..	17,91,577
* Interest at 3.3252 per cent on the outlay to end of 1916-17.	63,187		
Interest at 5.44 per cent on the outlay of Rs. 6,78,289 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31.	36,899		
Total ..	1,00,086		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	4,595	..	4,595
Leave and pension allowances	52,699	..	52,699
Audit and accounts	4,165	162	4,327
Total ..	61,459	162	61,621
REVENUE—			
Capitalization of abatement of land revenue ..	334	54	388
Leave and pension allowances	77,881	..	77,881
Audit and accounts	10,023	1,203	11,226
Total ..	88,238	1,257	89,495
Grand Total ..	1,49,697	1,419	1,51,116

DIVI PUMPING SYSTEM—CANAL PROJECT—*cont.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

DIVI PUMPING SYSTEM—

No. 6.—Statement comparing Charges to

Particulars	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.
Works	9,86,285	5,20,579	15,06,864	7,810	15,000
Establishment	1,87,250	2,08,295	3,95,545	2,071	4,538
Tools and plant	6,71,389	6,021	6,77,410	49	300
Suspense account	..	..	..	..	..
Total ..	18,44,924	7,34,895	25,79,819	9,930	19,838
Less—Receipts on Capital Account.	377	113	490	..	..
Net Total ..	18,44,547	7,34,782	25,79,329	9,930	19,838
<i>Indirect Charges.</i>					
Capitalized abatement of land revenue.	379	4,056	4,435	160	..
Leave and pension allowances.	26,215	26,484	52,699	..	..
Audit and accounts ..	..	4,249	4,249	78	150
Total ..	26,594	34,789	61,383	238	150
Grand Total ..	18,71,141	7,69,571	26,40,712	10,168	19,988

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

Canal Project—cont.

date with Sanctioned Estimates.

SANCTIONS.		REMARKS.	
Unspent balance of estimate.	Total charges to date against old and current sanctions.	G.O. No. and date.	Amount of estimate.
RS.	RS.		RS.
7,190	15,14,674	....	..
2,467	3,97,616	....	..
251	6,77,459	Superintending Engineer's Circle Register No. 2 of March 1928.	15,000
9,908	25,89,749		
..	490		
9,908	25,89,259		
— 160	4,595		
..	52,699		
72	4,327		
— 88	61,621		
9,820	26,50,880		
		Total ..	15,000

TOLUDUR RESERVOIR SYSTEM.

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st October 1925).	Expenditure against closed estimate.
	Previous.	1 930-193.	Total.		
1	2	3	4	5	6
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses.	8,442	..	8,442	8,442	8,442
B. Land	50,036	..	50,036	50,036	50,036
C. Works	4,50,266	..	4,50,266	4,50,266	4,50,266
K. Buildings	21,002	..	21,002	21,002	21,002
L. Earthwork	8,35,166	..	8,35,166	8,35,166	8,35,166
O. Miscellaneous	7,076	..	7,076	7,076	7,076
P. Maintenance	4,807	..	4,807	4,807	4,807
Unforeseen works	..	..	..	..	..
Total ..	13,76,795	..	13,76,795	13,76,795	13,76,795
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses.	1,185	..	1,185	1,185	1,185
B. Land	38,398	..	38,398	38,398	38,398
C. Works	..	..	..	..	..
D. Regulators	19,028	..	19,028	19,028	19,028
E. Falls and weirs	24,043	..	24,043	24,043	24,043
F. (1) Other cross drainage works.	8,765	..	8,765	8,765	8,765
G. Bridges	8,854	..	8,854	8,854	8,854
K. Buildings	..	..	..	..	..
L. Earthwork	52,042	..	52,042	52,042	52,042
O. Miscellaneous	1,220	..	1,220	1,220	1,220
P. Maintenance	3,420	..	3,420	3,420	3,420
Unforeseen works	..	..	..	..	..
Total ..	1,56,955	..	1,56,955	1,56,955	1,56,955
(3) <i>Distributaries—</i>					
A. Preliminary expenses.	971	..	971	971	971
B. Land	38,688	..	38,688	38,688	38,688
C. Works	61,915	827	62,742	62,742	62,742
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Unforeseen works	..	..	..	..	..
Total ..	1,01,574	827	1,02,401	1,02,401	1,02,401
(5) <i>Special Tools and Plant—</i>	— 61,411	..	— 61,411	— 61,411	— 61,411
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	15,73,913	827	15,74,740	15,74,740	15,74,740

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

TOLUDUR RESERVOIR SYSTEM—*cont.*No. 2.—Capital Account for and to end of 1930-1931—*cont.*

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
1	2	3	4	5	6
II. ESTABLISHMENT ..	RS. 4,64,760	RS. 270	RS. 4,65,030	RS. 4,65,030	RS. 4,65,030
III. TOOLS AND PLANT ..	3,05,910	5	3,05,915	3,05,915	3,05,915
(a) Grand Total ..	23,44,583	1,102	23,45,685	23,45,685	23,45,685
V. <i>Less</i> —Receipts on capital account.	9,815	..	9,815	9,815	9,815
(a) Net Total ..	23,34,768	1,102	23,35,870	23,35,870	23,35,870
Chargeable to 49. Irrigation Works.	17,48,578	..	17,48,578	..	..
Chargeable to 55-A. Irrigation Works—Productive.	5,86,190	1,102	5,87,292	..	..
Total ..	23,34,768	1,102	23,35,870	..	..

TOLUDUR RESERVOIR SYSTEM—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	193	3	196	(1) Head works	12,711	..	12,711
6. Receipts from other canal produce ..	1,852	182	2,034	(2) Main canals and branches	2,307	..	2,307
9. Rents of buildings	483	109	592	(3) Distributaries	3,270	422	3,692
11. Miscellaneous	342	40	382	(4) Drainage and protective works	..	..	..
Recoveries of expenditure	..	137	137	(5) Special tools and plant	..	..	..
<i>Deduct—Refunds</i>	9	..	9	Total ..	18,288	422	18,710
Total, Revenue realized in Public Works Department	2,861	471	3,332	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	5,26,330	1,16,887	6,43,217	(1) Head works	28,390	8,903	32,293
Total, Direct Receipts ..	5,29,191	1,17,358	6,46,549	(2) Main canals and branches	84,198	26,522	1,10,720
II. INDIRECT RECEIPTS—				(3) Distributaries	14,769	4,414	19,183
Share of Land Revenue collected in the Civil Department	..	448	448	(4) Drainage and protective works	..	..	..
Total, Public Works and Civil Departments, Revenue	5,29,191	1,17,806	6,46,997	(5) Special tools and plant	..	..	..
				<i>Add—Unclassifiable outlay</i>	..	..	..
				Total ..	1,27,357	34,839	1,62,196
				Total, Extensions and Improvements and Maintenance and Repairs	1,45,645	35,261	1,80,906
				IV. ESTABLISHMENT	39,632	13,420	52,952
				V. TOOLS AND PLANT	820	206	1,026
				VI. REFUNDS OF REVENUE	..	..	..
				<i>Deduct—Recoveries on revenue account</i>	240	..	240
				Total, Direct Charges ..	1,85,757	48,887	2,34,644
				Share of collection charges in the Civil Department	26,316	5,867	32,183
				Indirect Charges	2,342	353	2,695
				Total, Direct and Indirect Charges ..	2,14,415	55,107	2,69,522
				Balance, net revenue ..	3,14,776	62,639	3,77,475
Total, Receipts ..	5,29,191	1,17,806	6,46,997	Grand Total ..	5,29,191	1,17,806	6,46,997

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

TOLUDUR RESERVOIR SYSTEM—*cont.*

No. 4.—Interest Accounts for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	12,05,638	Net revenue realized to end of 1929-1930	3,14,776
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	62,699
* Interest at 3.3252 per cent on the outlay to end of 1916-17 ..	27,500	Balance net interest charges ..	9,37,715
Interest at 5.44 per cent on the outlay of Rs. 15,08,310 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31.	82,052		
Total ..	13,15,190	Total ..	13,15,190

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue ..	1,80,460	..	1,80,460
Leave and pension allowances	66,102	..	66,102
Audit and accounts	4,240	8	4,248
Total ..	2,50,802	8	2,50,810
REVENUE—			
Capitalization of abatement of land revenue ..	..	..	..
Leave and pension allowances	886	..	886
Audit and accounts	1,456	353	1,809
Total ..	2,342	353	2,695
Grand Total ..	2,53,144	361	2,53,505

TOLUDUR RESERVOIR SYSTEM—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	16,12,421	— 37,681	15,74,740	..	..	..	15,74,740		
Establishment	4,74,048	— 9,013	4,65,030	..	..	..	4,65,030		
Tools and plant	3,06,052	— 137	3,05,915	..	..	..	3,05,915		
Suspense account	..	..	..	..	..	..	..		
Total ..	23,92,521	— 46,836	23,45,685	..	..	..	23,45,685		
<i>Less—Receipts on Capital Account</i>	8,322	1,493	9,815	..	..	..	9,815		
Net Total ..	23,84,199	— 48,329	23,35,870	..	..	..	23,35,870		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	1,80,460	..	1,80,460	..	..	..	1,80,460		
Leave and pension allowances ..	66,102	..	66,102	..	..	..	66,102		
Audit and accounts	4,566	— 318	4,248	..	..	..	4,248		
Total ..	2,51,128	— 318	2,50,810	.	..	..	2,50,810		
Grand Total ..	26,35,327	— 48,647	25,86,680	..	..	..	25,86,680		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

POLAVARAM ISLAND—*Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses ..	21,724	— 21,724	..	..	..
B. Land ..	1,452	21,462	22,914	43,000	..
C. Works ..	49,234	— 46,451	2,783	4,000	..
G. Bridges ..	5,265	44,705	49,970	51,200	..
I. Navigation ..	9,956	2,650	12,605	16,400	..
K. Buildings ..	1,32,270	— 1,32,270	..	..	..
L. Earthwork ..	54,859	1,24,070	1,78,929	1,81,871	..
O. Miscellaneous.	7,962	3,652	11,614	9,335	..
P. Maintenance.	..	..	..	..	..
Unforeseen Works ..	..	..	..	7,634	..
Total ..	2,82,722	— 3,906	2,78,816	3,13,440	..
(3) <i>Distributaries—</i>					
B. Land ..	1,36,158	6,051	1,42,209	1,47,000	..
C. Works ..	5,54,672	10,702	5,65,374	6,30,000	..
K. Buildings ..	15,713	— 9,460	6,253	7,100	..
L. Earthwork ..	1,53,767	25,076	1,78,843	1,98,040	..
O. Miscellaneous ..	129	983	1,112	3,690	..
Total ..	8,60,439	33,352	8,93,791	9,85,830	..
(4) <i>Drainage and Protective works—</i>					
O. Miscellaneous.	..	2,883	2,883	64,684	..
Total ..	..	2,883	2,883	64,684	..
Total, Works ..	11,43,161	32,329	11,75,490	13,63,954	..
II. ESTABLISHMENT ..	3,26,684	7,955	3,34,639	4,05,960	..
III. TOOLS AND PLANT ..	12,917	429	13,346	27,280	..
Grand Total ..	14,82,762	40,713	15,23,475	17,97,194	..
V. <i>Less—RECEIPT ON CAPITAL ACCOUNT</i>	4,099	..	4,099	..	..
Net Total ..	14,78,663	40,713	15,19,376	17,97,194	..
Chargeable to 55-A. Irrigation Works—Productive	14,78,663	40,713	15,19,376	..	..

POLAVARAM ISLAND—*Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	Total.			Charges.	Total.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RM.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	.	53	53	(1) Head works	..	..	..
6. Receipts from other canal produce ..	..	256	256	(2) Main canals and branches	..	..	..
9. Rents of buildings.	..	4	4	(3) Distributaries	..	..	..
11. Miscellaneous ..	..	17	17	(4) Drainage and protective works	..	..	..
Total, Revenue realized in Public Works Department	..	330	330	(5) Special tools and plant	..	..	..
Irrigation Revenue realized in Civil Department	81,484	1,06,240	1,87,724	Total ..	..	..	..
Total, Direct Receipts.	81,484	1,06,570	1,88,054	II. MAINTENANCE AND REPAIRS—	..	..	..
II. INDIRECT RECEIPTS—				(1) Head works	..	..	..
Share of land revenue collected in the Civil Department	..	..	..	(2) Main canals and branches	1,189	..	1,189
Total, Public Works and Civil Departments, Revenue ..	81,484	1,06,570	1,88,054	(3) Distributaries	..	4,481	4,481
Total, Receipts ..	81,484	1,06,570	1,88,054	(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	1,189	4,481	5,670
				Total, Extensions and Improvements and Maintenance and Repairs	1,189	4,481	5,670
				IV. ESTABLISHMENT	306	2,389	2,695
				V. TOOLS AND PLANT	16	60	76
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct charges ..	1,511	6,930	8,441
				Share of collection charges in the Civil Department ..	4,074	5,312	9,386
				Indirect charges	12	45	57
				Total, Direct and Indirect Charges	5,597	12,287	17,884
				Balance, net revenue	75,887	94,283	1,70,170
				Grand Total ..	81,484	1,06,570	1,88,054

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

POLAVARAM ISLAND—*Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,95,598	Net revenue realized to end of 1929-1930	75,887
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	94,283
Interest at 5.44 per cent on the outlay of Rs. 14,99,020 from 1925-1926 to end of 1929-1930 plus half the outlay during 1930-1931 (first outlay was in 1925-1926).	81,547	Balance, net interest charges ..	1,06,975
Total ..	2,77,145	Total ..	2,77,145

No. 5.—Accounts of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	8,494	408	8,902
Leave and pension allowances	4,423	..	4,423
Audit and accounts	11,431	323	11,754
Total ..	24,348	731	25,079
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	..	..	..
Audit and accounts	12	45	57
Total ..	12	45	57
Grand Total ..	24,360	776	25,136

POLAVARAM ISLAND—Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>				RS.	RS.	RS.		<i>Direct Charges.</i>	RS.
Works	..	..	..	11,75,490	13,63,954	1,88,464	..	II. Workslip G.O. No. 263 I., 30th January 1931.	13,63,954
Establishment	..	..	..	3,34,639	4,05,960	71,321	..		
Tools and plant	..	..	..	13,346	27,280	13,934	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	..	..	..	15,23,475	17,97,194	2,73,719	..		
Less—Receipts on Capital Account ..	..	..	..	4,099	..	— 4,099	..		
Net Total ..	..	..	..	15,19,376	17,97,194	2,77,818	..		
<i>Indirect Charges.</i>								<i>Indirect Charges.</i>	
Capitalized abatement of land revenue ..	..	..	..	8,902	6,400	— 2,502	..		24,463
Leave and pension allowances	..	..	..	4,423	4,423	..	..		
Audit and accounts	..	..	..	11,754	13,640	1,886	..		
Total ..	..	..	..	25,079	24,463	— 616	..		
Grand Total ..	..	..	..	15,44,455	18,21,657	2,77,202	..		

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931	Total.		
	rs.	rs.	rs.	rs.	
I. Works—					
(1) Head Works—					
A. Preliminary expenses ..	1,80,732	2,664	1,83,396	2,00,000	..
B. Land	29,91,089	1,815	29,92,904	29,14,650	..
C. Works	67,00,032	60,13,472	1,27,13,504	2,83,24,400	..
K. Buildings	23,03,959	20,212	23,24,181	26,36,300	..
O. Miscellaneous	23,88,663	81,998	24,70,661	31,87,650	..
P. Maintenance	7	..	7	1,00,000	..
Unforeseen works	..	..	..	..	..
Total ..	1,45,64,492	61,20,161	2,06,84,653	3,73,63,000	..
(2) Main Canals and Branches—					
(a) Grand Anicut Canal system—					
A. Preliminary expenses ..	98,222	37	98,259	98,800	..
B. Land	11,39,723	5,557	11,45,280	13,82,400	..
D. Regulators	2,29,794	41,180	2,70,974	3,99,500	..
E. Falls and weirs	1,31,246	28,241	1,59,487	1,75,000	..
F. (1) Other cross drainage works	12,16,020	3,58,577	15,74,597	37,03,700	..
G. Bridges	5,35,237	1,23,660	6,58,797	9,13,000	..
H. Escapes	22,024	118	22,142	28,100	..
K. Buildings	1,52,457	44,586	1,97,043	2,93,000	..
L. Earthwork	12,56,034	5,78,624	18,34,658	32,65,400	..
M. Plantations	4,767	2,930	7,697	50,000	..
O. Miscellaneous	54,828	16,811	71,639	1,61,400	..
P. Maintenance	4,753	5,841	10,594	72,000	..
Unforeseen works	..	..	..	..	..
Total ..	48,45,105	12,06,062	60,51,167	1,05,46,300	..
(b) Vadavar system—					
A. Preliminary expenses ..	20,845	..	20,845	21,000	..
B. Land	92,486	1,497	90,989	1,33,754	..
D. Regulators	27,386	206	27,592	31,100	..
E. Falls and weirs	21,277	1,672	22,949	41,600	..
F. (1) Other cross drainage works	50,581	2,130	52,711	75,000	..
G. Bridges	31,147	7,470	38,617	76,800	..
H. Escapes	23,939	414	24,353	28,500	..
K. Buildings	28,705	16	28,721	29,900	..
L. Earthwork	1,30,829	46,995	1,77,824	2,38,200	..
M. Plantations	884	1,280	2,164	12,800	..
O. Miscellaneous	5,993	2,031	8,024	10,400	..
P. Maintenance	1,426	1,653	3,079	11,500	..
Unforeseen works	..	..	..	..	..
Total ..	4,35,478	62,370	4,97,848	7,10,554	..
Total (2) Main Canals and Branches ..	52,80,583	12,68,432	65,49,015	1,12,56,854	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CAJVERY-METTUR RESERVOIR PROJECT—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	T tal.		
I. WORKS—cont.	RS.	RS.	RS.	RS.	
(3) <i>Distributaries</i> —					
(a) Grand Anicut Canal system—					
A. Preliminary expenses ..	1,18,006	2,525	1,20,531	1,35,000	..
B. Land	9,63,202	3,19,354	12,52,556	21,49,700	..
C. Works	2,98,900	1,67,394	4,66,294	14,89,550	..
L. Earthwork	3,47,353	1,17,171	4,64,524	14,31,350	..
M. Plantations	1,441	2,492	3,940	17,100	..
O. Miscellaneous	27,391	2,438	29,829	90,000	..
P. Maintenance	..	170	170	45,100	..
Total ..	17,56,293	6,11,551	23,67,844	53,57,800	..
(b) Vadavar system—					
A. Preliminary expenses ..	20,982	1,586	22,568	24,000	..
B. Land	3,02,549	10,027	3,12,576	4,51,246	..
C. Works	1,41,598	34,227	1,75,825	2,84,100	..
L. Earthwork	2,11,251	20,017	2,31,268	2,62,200	..
M. Plantations	1,503	1,088	2,591	2,240	..
O. Miscellaneous	6,128	3,722	9,850	12,660	..
P. Maintenance	54	1,405	1,459	9,000	..
Total ..	6,84,065	72,072	7,56,137	10,45,446	..
Total (3) Distributaries ..	24,40,358	6,83,623	31,23,981	64,03,246	..
(5) <i>Special Tools and Plant</i> ..	84,12,962	5,88,595	90,01,557	92,28,000	..
Loss on stock	1,037	835	1,872	..	..
Total Works ..	3,06,99,432	85,61,646	3,93,61,078	6,42,51,100	..

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
II. ESTABLISHMENT—(a)	RS.	RS.	RS.	RS.	
Non-voted—					
Pay of officers	7,52,103	1,83,173	9,35,276	..	..
Cost of passage granted ..	17,852	3,037	20,889	..	..
Other compensatory allowances.	12,290	..	12,290	..	..
Travelling allowance ..	46,020	12,425	58,445	..	..
Rates and taxes ..	4	..	4	..	..
Bonus contribution to Special Provident Fund.	..	11,686	11,686	..	..
Voted—					
Pay of officers	3,99,925	1,58,387	5,58,312	..	..
Pay of establishment, Ty.	9,55,644	2,74,770	12,30,414	..	..
Travelling allowance ..	1,51,244	35,240	1,86,484	..	..
Fixed travelling allowance.	21,190	..	21,190	..	..
Other compensatory allowances.	39,542	173	39,715	..	..
Contract contingencies ..	85	..	85	..	..
Supplies and Services ..	..	730	730	..	..
Non-contract contingencies—Stationery and Printing.	1,42,220	32,679	1,74,899	..	..
Other contingencies ..	282	..	282	..	..
Bonus contribution to Special Provident Fund.	..	7,096	7,096	..	..
Total ..	25,38,401	7,19,896	32,57,797	..	..
English cost of establishment—Par value.	1,46,246	40,465	1,86,711	..	..
Loss by exchange	8,286	524	8,810	..	..
Deduct—Recoveries	86,237	— 6,620	79,617	..	..
Add—Amount debited by transferred establishment.	3,590	..	3,590	..	..
Add—Pensionary charges ..	3,45,546	64,566	4,10,112	..	..
Net Total, Establishment (a) ..	29,55,832	8,31,571	37,87,403	..	..
Police establishment—(b)					
Voted—					
Pay of establishment, Temporary.	20,320	10,203	30,523	..	..
Other compensatory allowance.	1,636	1,380	3,016	..	..
Travelling allowance ..	3,451	1,131	4,582	..	..
Non-contract contingencies.	108	59	167	..	..
Pensionary contribution at foreign service (contribution) rates.	4,986	747	5,733	..	..
Total, II (b) ..	30,501	13,520	44,021	..	..
Grand Total, II (a) & (b) Establishment ..	29,86,333	8,45,091	38,31,424	74,26,900	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	
III. TOOLS AND PLANT—					
New supplies—					
Scientific instruments and drawing materials.	52,840	9,523	62,363	..	..
Tools	84,640	11,698	96,338	..	..
Office furniture	40,711	2,243	42,954	..	..
Navigation plant	306	961	1,267	..	..
Camp equipage	29,366	212	29,578	..	..
Repairs and carriage ..	14,061	2,663	16,724	..	..
Total, Tools and Plant ..	2,21,924	27,300	2,49,224	..	..
Deduct—Charges debited to other heads of account.	..	..	..	..	..
Add—Amount debited by transferred establishment.	— 18	..	— 18	..	..
Net Total, Tools and Plant ..	2,21,906	27,300	2,49,206	6,91,000	..
IV. SUSPENSE	6,71,290	— 63,735	6,07,555	1,42,000	..
Grand Total ..	3,45,78,961	94,70,302	4,40,49,263	7,25,11,000	..
V. <i>Loss</i> —RECEIPTS ON CAPITAL ACCOUNT.	4,21,516	1,98,635	6,20,151	2,00,000	..
Total outlay in India and England.	3,41,57,445	92,71,667	4,34,29,112	7,23,11,000	..
Add—Loss by Exchange ..	1,39,776	4,934	1,44,710	..	..
Deduct—Establishment charges incurred in England.	1,39,844	40,989	1,80,833	..	..
Deduct—English cost of land acquisition establishment charged to works.	..	3,097	3,097	..	..
Deduct—English cost of stores ..	46,52,474	3,45,281	49,97,755	..	..
Net outlay in India ..	2,95,04,903	88,87,234	3,83,92,137	7,23,11,000	..
Chargeable to 55-A.—Irrigation Works—Productive.	3,41,57,445	92,71,667	4,34,29,112	..	..

ADMINISTRATIVE ACCOUNTS.
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

CAUVERY-METTUR RESERVOIR PROJECT—*Canal Project*—cont.

No. 4.—Interest account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	34,36,989	Net revenue realized to end of 1929-1930.	..
Total interest charges for the year 1930-1931.	21,10,391	Net revenue realized during 1930-1931.	..
Interest at 5.44 per cent on the outlay of Rs. 3,87,93,278 (from 1925-1926 to end of 1929-1930 + half the outlay during 1930-1931, as the first outlay was in 1925-1926).	21,10,354	Balance, net interest charges ..	55,47,380
Deduct interest on capital recovered for private jobs executed in workshops.	22		
Add—Withdrawal of interest on capital outlay on jobs executed in 1928-29.	59		
Net ..	21,10,391		
Total ..	55,47,380	Total ..	55,47,380

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue.	3,62,221	44,488	4,06,709
Leave and pension allowances	23,617	..	23,617
Audit and accounts	3,03,652	86,616	3,90,268
Total ..	6,89,490	1,31,104	8,20,594
Revenue—			
Capitalization of abatement of land revenue.	..	..	..
Leave and pension allowances	..	..	..
Audit and accounts	..	..	..
Total ..	..	..	..
Grand Total ..	6,89,490	1,31,104	8,20,594

CAUVERY-METTUR RESERVOIR PROJECT—Canal Project—cont.
No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>				RS.	RS.	RS.		<i>Direct Charges.</i>	
Works	..	..	..	3,93,61,078	6,42,51,100	2,48,90,022	..	Revised estimate, works. 1652—3 I.,	..
Establishment	..	..	..	38,31,424	74,26,900	35,95,476	..	6th July 1928 & Press 1788 I., 15th June 1929 & Finance Department, M.S. 3, dated 2nd January 1930 and 84 M.S. 4th February 1931.	7,23,11,000
Tools and plant	..	..	..	2,49,206	6,91,000	4,41,794	..		
Suspense account	..	..	..	6,07,555	1,42,000	— 4,65,555	..		
Total	..	..	..	4,40,49,263	7,25,11,000	2,84,61,737	..		
Less—Receipts on Capital Account	..	..	..	6,20,151	2,00,000	— 4,20,151	..		
Total outlay in India and England	..	..	..	4,34,29,112	7,23,11,000	2,88,81,888	..		
Add—Loss by Exchange	..	..	..	1,44,710	..	— 1,44,710	..	<i>Indirect Charges.</i>	
Deduct—English cost of stores and establishment.	..	..	..	51,81,685	..	51,81,685	..		
Net outlay in India	..	..	..	3,83,92,137	7,23,11,000	3,39,18,863	..	Do.	13,97,000
<i>Indirect Charges.</i>									
Capitalization of abatement of land revenue.	..	..	..	4,06,709	8,13,028	4,06,319	..		
Leave and pension allowances	..	..	..	23,617	17,972	— 5,645	..		
Audit and accounts	..	..	..	3,90,268	5,66,000	1,75,732	..		
Total	..	..	..	8,20,594	13,97,000	5,76,406	..		
Grand total outlay in India and England	..	..	..	4,42,49,706	7,37,08,000	2,94,58,294	..		
Net outlay in India	..	..	..	3,92,12,731	7,37,08,000	3,44,95,269	..		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KATTALAI ANICUT SCHEME—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	
2. Main Canals and Branches—					
A. Preliminary expenses.	10,004	..	10,004	3,000	..
B. Land	1,63,783	26	1,63,809	2,55,360	..
C. Works	..	..	..	16,630	..
D. Regulators	76,487	1,007	75,480	91,370	..
E. Falls and weirs ..	17,178	..	17,178	18,290	..
F. Other cross drainage works,	..	..	..	20,610	..
G. Bridges	93,891	806	94,697	89,315	..
H. Enclosures	46,295	5,382	40,913	..	..
K. Buildings	3,382	..	3,382	3,600	..
L. Earth work	5,05,708	..	5,05,708	6,93,450	..
O. Miscellaneous	8,843	647	9,490	23,560	..
P. Maintenance	39,659	..	39,659	..	..
Unforeseen works ..	..	..	..	17,135	..
Total, Main Canals ..	9,65,230	4,410	9,60,320	12,32,350	..
5. Special Tools and Plant	20,174	15,842	4,332	12,000	..
Total, Works ..	9,85,404	20,752	9,64,652	12,44,350	..
II. ESTABLISHMENT—					
Non-voted—					
Pay of officers	11,029	..	11,029	..	..
Passage pay	476	..	476	..	..
Voted—					
Pay of officers	10,607	..	10,607	..	..
Pay of establishment (temporary).	24,013	161	24,174	..	..
Travelling allowance ..	7,948	..	7,248	..	..
Fixed travelling allowance.	839	..	839	..	..
Other compensatory allowance.	341	..	341	..	..
Non-contract contingencies—Miscellaneous.	1,668	..	1,668	..	..
Total, Establishment ..	56,921	161	57,082	1,89,426	..
English cost of establishment—					
Par-value	3,862	..	3,862	..	..
Loss by exchange	1,274	..	1,274	..	..
Add—Pensionary charges on special establishment.	2,906	23	2,929	..	..
„ Amount debited by Transferred Establishment.	81,700	7,914	73,786	..	..
Grand total, Establishment ..	1,46,663	7,730	1,38,933	1,89,426	..
III. TOOLS AND PLANT—					
New supplies—					
Scientific instruments and drawing materials.	2,374	..	2,374	..	..
Plant and machinery ..	3,306	..	3,306	..	..
Tools	32,452	..	32,452	..	..
Office furniture	482	..	482	..	..
Repairs and carriage ..	7,652	..	7,652	..	..
Total, Tools and Plant ..	46,266	..	46,266	13,367	..
Add—Amount debited by Transferred.	169	210	379	..	..
Net Total, Tools and Plant ..	46,097	210	45,887	13,367	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KATTALAI ANICUT SCHEME—*Canal Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	
IV. SUSPENSE	..	..	..	..	..
V. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT.	3,930	..	3,930	..	..
Net Total, outlay in India and England.	11,74,234	— 28,692	11,45,542	14,47,143	..
<i>Add</i> —Less by exchange.	1,274	..	1,274	..	..
<i>Deduct</i> —Establishment charges incurred in England.	5,136	..	5,136	..	..
Net outlay in India ..	11,70,372	— 28,622	11,41,680	14,47,143	..
Chargeable to 55-A. Irrigation works—Productive.	11,74,234	28,692	11,45,542	..	..

KATTALAI ANICUT SCHEME—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	4,686	2,949	7,635	(1) Head works	..	..	..
6. Receipts from other canal produce.	39	711	750	(2) Main canals and branches	..	3,962	3,962
8. Navigation receipts	..	..	..	(3) Distributaries	..	..	..
9. Rents of Buildings	..	..	..	(4) Drainage and protective works	..	..	..
10. Fines	..	..	..	(5) Special tools and plant	..	..	..
11. Miscellaneous	11	22	33	Total ..	..	3,962	3,962
Recoveries of expenditure	..	68	68	II. MAINTENANCE AND REPAIRS—	..	..	..
Deduct—Refunds	..	26	26	(1) Head works	1,407	1,817	3,224
Total revenue realized in the Public Works Department	4,736	3,724	8,460	(2) Main canals and branches	5,353	52,395	57,748
Irrigation revenue realized in Civil Department	45,180	— 16,877	28,303	(3) Distributaries	..	..	..
Total, Direct Receipts ..	49,916	— 13,153	36,763	(4) Drainage and protective works	..	..	..
II. INDIRECT RECEIPTS—	..	..	..	(5) Special tools and plant	..	..	..
Share of land revenue collected in the Civil Department	..	15	15	Add—Unclassifiable outlay	..	..	..
Total, Public Works and Civil Departments Revenue	49,916	— 13,138	36,778	Total ..	6,760	54,212	60,972
Net Deficit, if any ..	— 37,859	93,949	56,090	Total, Extensions and Improvements and Maintenance and Repairs	6,760	58,174	64,934
Grand Total ..	12,057	80,811	92,868	IV. ESTABLISHMENT	2,917	22,338	25,255
				V. TOOLS AND PLANT	53	560	613
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	9,730	81,072	90,802
				Share of collection charges in the Civil Department	2,259	— 843	1,416
				Indirect charges	68	582	650
				Total, Direct and Indirect Charges ..	12,057	80,811	92,868
				Balance, net revenue ..	..	..	..
				Grand Total ..	12,057	80,811	92,868

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KATTALAI ANICUT SCHEME—*Canal Project*—cont.
 No. 4.—Interest Account for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930.	2,25,688	Net revenue realized to end of 1929–1930.	37,859
Total interest charges for the year 1930–1931.	* 63,098	Net revenue realized during 1930–1931.	— 93,949
		Balance, net interest charges.	3,44,876
Total ..	2,88,786	Total ..	2,88,786
* Interest at 5.44 per cent on the outlay of Rs. 11,59,888 from 1925–26 (the first outlay being in 1925–26) to end of 1929–30 + half of the outlay during 1930–31.	63,098		

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous.	1930–1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue ..	16,155	..	16,155
Leave and pension allowances	7,233	..	7,233
Audit and accounts	9,854	— 207	9,647
Total ..	33,242	— 207	33,035
REVENUE—			
Leave and pension allowances	68	582	650
Audit and accounts	..	..	..
Total ..	68	582	650
Grand Total ..	33,310	375	33,685

KATTALAI ANICUT SCHEME—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>				RS.	RS.	RS.			RS.
Works	..	..	..	9,64,652	12,44,350	2,79,698	..	3545 I., 16th December 1930 and Irrigation Chief Engineer's No. 68 of 1930-31.	3,62,000
Establishment	..	..	..	1,38,933	1,89,426	50,493	..		
Tools and plant	..	..	..	45,887	13,357	— 32,520	..		
Suspense account	..	..	..	..	..	..	..		
Total	..	..	..	11,49,472	14,47,143	2,97,671	..		
Less—Receipts on Capital account	..	..	..	3,930	..	— 3,930	..		
Net Total outlay in India and England	..	..	..	11,45,542	14,47,143	3,01,601	..		
Add—Loss by exchange	..	..	..	1,274	..	— 1,274	..		
Deduct—Establishment charges incurred in England.	..	..	..	5,136	..	— 5,136	..		
Net outlay in India	..	..	..	11,41,680	14,47,143	3,05,463	..		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	..	..	16,155	23,097	6,942	..	1836 (Press), 1st December 1926.	8,76,000
Leave and pension allowances	..	..	..	7,233	16,380	9,147	..		
Audit and accounts	..	..	..	9,647	12,444	2,797	..		
Total	..	..	..	33,035	51,921	18,886	..		8,76,000
Grand Total outlay in India and England	..	..	..	11,78,577	14,99,064	3,20,487	..	Mis. 1707 I., 10th July 1928.	6,350
Net Total outlay in India	..	..	..	11,74,715	14,99,064	3,24,349	..	Suppl. and 1346 I., 1st May 1929.	8,82,350
								Total ..	12,44,350

The estimates for high level channel and bed regulator technically sanctioned by the Chief Engineer have not been taken into account as distribution over several service and detailed heads has not yet been furnished by him.

II. INDIRECT RECEIPTS—

Share of land revenue collected in the Civil Department ..	39,123	2,550	41,673	Share of collection charges in the Civil Department	3,14,459	15,832	3,30,291
				Indirect Charges	2,45,696	1,065	2,46,761
				Total, Direct and Indirect Charges ..	71,04,932	1,53,373	72,58,305
				Deduct—Old maintenance charges saved to Government*	63,952	3,599	67,551
Total, Public Works and Civil Departments, Revenue ..	1,02,39,033	3,27,469	1,05,66,502	Net Total ..	70,40,980	1,49,774	71,90,754
				Balance, net revenue ..	31,98,053	1,77,695	33,75,748
Total, Receipts ..	1,02,39,033	3,27,469	1,05,66,502	Grand Total ..	1,02,39,033	3,27,469	1,05,66,502

* Direct—

Extensions and improvements	rs.
Maintenance and repairs	232
Establishment	2,757
Tools and plant	569
	11
Total Direct ..	3,569
Indirect	30
Total, Direct and Indirect ..	3,599

KURNOOL-CUDDAPAH CANAL—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	3,92,03,463	Net revenue realized to end of 1929-1930	31,98,053
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	1,77,695
Interest at 3.3252 per cent on the outlay to end of 1916-1917 .. 7,60,421		Balance, net interest charges ..	3,66,12,358
Interest at 5.44 per cent on the outlay of Rs. 4,45,258 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 .. 24,222	7,84,643		
Total ..	3,99,88,106	Total ..	3,99,88,106

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	19,983	..	19,983
Leave and pension allowances	53,274	..	53,274
Audit and accounts	181	..	181
Total ..	73,438	..	73,438
REVENUE—			
Capitalization of abatement of land revenue ..	5,939	..	5,939
Leave and pension allowances	2,30,069	..	2,30,069
Audit and accounts	9,688	1,065	10,753
Total ..	2,45,696	1,065	2,46,761
Grand Total ..	3,19,134	1,065	3,20,199

KURNOOL-CUDDAPAH CANAL—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		RS.
Works	1,77,82,139	13,10,953	1,90,93,092	..	..	..	1,90,93,092		
Establishment	..	3,80,864	3,80,864	..	..	..	3,80,864		
Tools and plant	..	3,085	3,085	..	..	..	3,085		
Suspense account	..	..	..	..	..	..	..		
Loss by exchange	40,80,918	..	40,80,918	..	..	..	40,80,918		
Total	2,18,63,057	16,94,902	2,35,57,959	..	..	..	2,35,57,959		
Less—Receipts on Capital Account	2,24,115	20,168	2,44,283	..	..	..	2,44,283		
Net Total	2,16,38,942	16,74,734	2,33,13,676	..	..	..	2,33,13,676		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	19,983	19,983	..	..	..	19,983		
Leave and pension allowances.	..	53,274	53,274	..	..	..	53,274		
Audit and accounts	..	181	181	..	..	..	181		
Total	..	73,438	73,438	..	..	..	73,438		
Grand Total	2,16,38,942	17,48,172	2,33,87,114	..	..	..	2,33,87,114		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

BARUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1891).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) Head Works—					
A. Preliminary expenses ..	739	..	739	739	739
B. Land	11,573	..	11,573	11,573	11,573
C. Works	23,817	..	23,817	23,817	23,817
K. Buildings	4,621	..	4,621	4,621	4,621
O. Miscellaneous	4,568	..	4,568	4,568	4,568
P. Maintenance	355	..	355	355	355
Total ..	45,673	..	45,673	45,673	45,673
(2) Main Canals and Branches—					
B. Land	296	..	296	296	296
C. Works	2,323	..	2,323	2,323	2,323
D. Regulators	24,620	..	24,620	24,620	24,620
E. Falls and Weirs	..	..	..	..	..
F. (1) Other cross drainage works	4,053	..	4,053	4,053	4,053
G. Bridges	5,270	..	5,270	5,270	5,270
L. Earthwork	82,550	..	82,550	82,550	82,550
N. Tanks and reservoirs ..	1,879	..	1,879	1,879	1,879
O. Miscellaneous	4,684	..	4,684	4,684	4,684
Total ..	1,25,675	..	1,25,675	1,25,675	1,25,675
(2-A) Reservoirs—					
C. Works	2,949	..	2,949	2,949	2,949
L. Earthwork	66,826	..	66,826	66,826	66,826
Total ..	69,775	..	69,775	69,775	69,775
(3) Distributaries—					
B. Land	897	..	897	897	897
C. Works	40,038	..	40,038	40,038	40,038
L. Earthwork	53,279	..	53,279	53,279	53,279
N. Tanks and reservoirs ..	428	..	428	428	428
Total ..	94,642	..	94,642	94,642	94,642
(5) Special tools and plant ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	3,35,765	..	3,35,765	3,35,765	3,35,765

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BARUR TANK—*Tank Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1891).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
II. ESTABLISHMENT	RS. 76,701	..	RS. 76,701	RS. 76,701	RS. 76,701
III. TOOLS AND PLANT	6,931	..	6,931	6,931	6,931
Grand Total ..	4,19,397	..	4,19,397	4,19,397	4,19,397
V. Less—RECEIPTS ON CAPITAL ACCOUNT	22	..	22	22	22
(a) Net Total ..	4,19,375	..	4,19,375	4,19,375	4,19,375

(a) Chargeable to 49. Irrigation	RS. 4,02,176
Do. to 43. Minor Works and Navigation—Provincial.	17,199
Total ..	<u>4,19,375</u>

BARUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1891).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses ..	739	..	739	739	739
B. Land	11,573	..	11,573	11,573	11,573
C. Works	23,817	..	23,817	23,817	23,817
K. Buildings	4,621	..	4,621	4,621	4,621
O. Miscellaneous	4,568	..	4,568	4,568	4,568
P. Maintenance	355	..	355	355	355
Total ..	45,673	..	45,673	45,673	45,673
(2) <i>Main Canals and Branches—</i>					
B. Land	296	..	296	296	296
C. Works	2,323	..	2,323	2,323	2,323
D. Regulators	24,620	..	24,620	24,620	24,620
E. Falls and Weirs	..	..	..	..	..
F. (1) Other cross drainage works	4,053	..	4,053	4,053	4,053
G. Bridges	5,270	..	5,270	5,270	5,270
L. Earthwork	82,550	..	82,550	82,550	82,550
N. Tanks and reservoirs	1,879	..	1,879	1,879	1,879
O. Miscellaneous	4,684	..	4,684	4,684	4,684
Total ..	1,25,675	..	1,25,675	1,25,675	1,25,675
(2-A) <i>Reservoirs—</i>					
C. Works	2,949	..	2,949	2,949	2,949
L. Earthwork	66,826	..	66,826	66,826	66,826
Total ..	69,775	..	69,775	69,775	69,775
(3) <i>Distributaries—</i>					
B. Land	897	..	897	897	897
C. Works	40,038	..	40,038	40,038	40,038
L. Earthwork	53,279	..	53,279	53,279	53,279
N. Tanks and reservoirs	428	..	428	428	428
Total ..	94,642	..	94,642	94,642	94,642
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	3,35,765	..	3,35,765	3,35,765	3,35,765

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BARUR TANK—*Tank Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1891).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
II. ESTABLISHMENT	RS. 76,701	..	RS. 76,701	RS. 76,701	RS. 76,701
III. TOOLS AND PLANT	6,931	..	6,931	6,931	6,931
Grand Total ..	4,19,397	..	4,19,397	4,19,397	4,19,397
V. Less—RECEIPTS ON CAPITAL ACCOUNT	22	..	22	22	22
(a) Net Total ..	4,19,375	..	4,19,375	4,19,375	4,19,375

(a) Chargeable to 42. Irrigation	RS. 4,02,176
Do. to 43. Minor Works and Navigation—Provincial.	17,199
Total ..	<u>4,19,375</u>

BARUR TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plan-				(1) Head works	4,493	..	4,493
tations ..	2,690	748	3,438	(2) Main canals and branches	18,385	..	18,385
6. Receipts from other				(3) Distributaries	2,561	..	2,561
canal produce ..	17,491	923	18,414	(4) Drainage and protective works	1,661	..	1,661
9. Rents of buildings.	972	14	986	(5) Special tools and plant	..	..	..
11. Miscellaneous ..	1,907	14	1,921	Total ..	27,100	..	27,100
Recoveries of expenditure.	..	4	4				
Deduct—Refunds ..	168	..	168	II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized				(1) Head works	21,156	..	21,156
in Public Works				(2) Main canals and branches	1,28,728	7,379	1,36,107
Department ..	22,892	1,703	24,595	(3) Distributaries	10,067	..	10,067
Irrigation Revenue				(4) Drainage and protective works	666	..	666
realized in Civil				(5) Special tools and plant	..	..	..
Department ..	5,43,311	18,263	5,61,574	Total ..	1,60,617	7,379	1,67,996
Total, Direct Receipts ..	5,66,203	19,966	5,86,169	Total, Extensions and Improvements and Mainten-			
				ance and Repairs	1,87,717	7,379	1,95,096
II. INDIRECT RECEIPTS—				IV. ESTABLISHMENT	69,276	2,004	71,280
Share of land revenue				V. TOOLS AND PLANT	851	185	1,036
collected in the Civil				VI. REFUNDS OF REVENUE	54	..	54
Department ..	13,008	758	13,766	Deduct—Recoveries on revenue account	44	..	44
Total, Public Works				Total, Direct Charges ..	2,57,854	9,568	2,67,422
and Civil Depart-				Share of collection charges in the Civil Depart-			
ments, Revenue ..	5,79,211	20,724	5,99,935	ment	27,248	921	28,169
Total, Receipts ..	5,79,211	20,724	5,99,935	Indirect charges	9,436	74	9,510
				Total, Direct and Indirect Charges ..	2,94,538	10,563	3,05,101
				Balance, Net revenue ..	2,84,673	10,161	2,94,834
				Grand Total ..	5,79,211	20,724	5,99,935

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY

BARUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount
	RS.		RS.
Total interest charges to end of 1929-1930	6,61,326	Net revenue realized to end of 1929-1930	2,84,673
Total interest charges for the year 1930-1931	13,945*	Net revenue realized during 1930-1931	10,161
		Balance net interest charges.	3,80,437
Total ..	6,75,271	Total ..	6,75,271

* Interest at 3·3252 per cent on the outlay to end of 1916-1917	RS. 13,945
Interest at 5·44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	..
Total ..	13,945

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	13,000	..	13,000
Leave and pension allowances	10,738	..	10,738
Audit and accounts	..	..	..
Total ..	23,738	..	23,738
REVENUE—			
Capitalization of abatement of land revenue	130	..	130
Leave and pension allowances	8,931	..	8,931
Audit and accounts	375	74	449
Total ..	9,436	74	9,510
Grand Total ..	33,174	74	33,248

BARUR TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	Remarks.
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.	
Works	3,11,681	24,084	3,35,765	..	..	..	3,35,765	
Establishment	71,683	5,018	76,701	..	..	..	76,701	
Tools and plant	6,883	48	6,931	..	..	..	6,931	
Suspense account	..	..	..	..	..	..	..	
Total ..	3,90,247	29,150	4,19,397	..	..	..	4,19,397	
Less—Receipts on Capital Account	22	..	22	..	..	..	22	
Net Total ..	3,90,225	29,150	4,19,375	..	..	..	4,19,375	
<i>Indirect Charges.</i>								
Capitalized abatement of land revenue	12,056	944	13,000	..	..	..	13,000	
Leave and pension allowances	10,036	702	10,738	..	..	..	10,738	
Total ..	22,092	1,646	23,738	..	..	..	23,738	
Grand Total ..	4,12,317	30,796	4,43,113	..	..	..	4,43,113	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

VALLUR ANICUT SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works</i> —					
C. Works ..	59,515	..	59,515	59,515	59,515
Total ..	59,515	..	59,515	59,515	59,515
(3) <i>Distributaries</i> —					
C. Works ..	1,147	..	1,147	1,147	1,147
Total ..	1,147	..	1,147	1,147	1,147
Total, Works ..	60,662	..	60,662	60,662	60,662
II. ESTABLISHMENT ..	13,679	..	13,679	13,679	13,679
III. TOOLS AND PLANT ..	25	..	25	25	25
Grand Total ..	74,366	..	74,366	74,366	74,366
V. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT ..	..	..	..	..	..
(a) Net Total ..	74,366	..	74,366	74,366	74,366

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

VALLUR ANICUT SYSTEM—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	1,766	..	1,766	(1) Head works	4,841	..	4,841
6. Receipts from other canal produce	1,765	7	1,772	(2) Main canals and branches	925	..	925
9. Rents of buildings	187	29	216	(3) Distributaries	..	..	..
11. Miscellaneous	1,434	235	1,669	(4) Drainage and protective works	4,817	..	4,817
				(5) Special tools and plant	..	..	..
Deduct—Refunds ..	21	40	61	Total ..	10,583	..	10,583
Total, Revenue realized in Public Works Department	5,131	231	5,362	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	1,43,443	2,407	1,45,850	(1) Head works	43,481	..	43,481
Total, Direct Receipts ..	1,48,574	2,638	1,51,212	(2) Main canals and branches	14,147	1,700	15,847
				(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	17,582	..	17,582
				Total ..	75,210	1,700	76,910
				Total, Extensions and Improvements and Maintenance and Repairs	85,793	1,700	87,493
				IV. ESTABLISHMENT	20,767	478	21,245
				V. TOOLS AND PLANT	627	7	634
				Deduct—			
				VI. RECOVERIES ON REVENUE ACCOUNT ..	10	..	10
				Total, Direct Charges ..	1,07,177	2,185	1,09,362

II. INDIRECT RECEIPTS—							
47 Share of land revenue collected in the Civil Department ..	55,005	1,074	56,079	Share of collection charges in the Civil Department	9,925	174	10,099
				Indirect charges	2,794	17	2,811
Total, Public Works and Civil Departments, Revenue ..	2,03,579	3,712	2,07,291	Total, Direct and Indirect Charges ..	1,19,896	2,376	1,22,272
				Deduct—Old maintenance charges saved to Government (a)	49,863	1,568	51,431
				Net Total ..	70,033	808	70,841
				Balance, Net Revenue	1,33,546	2,904	1,36,450
				Grand Total ..	2,03,579	3,712	2,07,291
Total, Receipts ..	2,03,579	3,712	2,07,291				

(a) Extensions and Improvements	226
Maintenance and repairs	1,077
Establishment	247
Tools and plant	5
Total, Direct Charges ..	1,555
Indirect charges	13
Total, Direct and Indirect Charges ..	1,568

VALLUR ANICUT SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930	1,52,000	Net revenue realized to end of 1929–1930	1,33,546
Total interest charges for the year 1930–1931—		Net revenue realized during 1930–1931	2,904
		Balance, net interest charges ..	18,250
	RS.		
Interest at 3·3252 per cent on the outlay to end of 1916–1917. 2,114			
Interest at 5·44 per cent on the outlay of Rs. 10,778 from 1917–1918 to end of 1929–1930 plus half the outlay during 1930–1931 586	2,700		
Total ..	1,54,700	Total ..	1,54,700

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous.	1930–1931.	Total.
	RS.	RS.	RS.
Capital—			
Leave and pension allowances	1,916	..	1,916
Audit and accounts	..	..	..
Total ..	1,916	..	1,916
Revenue—			
Leave and pension allowances	2,489	..	2,489
Audit and accounts	305	17	322
Total ..	2,794	17	2,811
Grand Total ..	4,710	17	4,727

VALLUR ANICUT SYSTEM—*Canal Project*—cont.
No. 6.—Statement comparing charges to date with Sanctioned Estimates

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
1	2	3	4	5	6	7	8	9	10
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	50,550	10,112	60,662	..	..	..	60,662		
Establishment	11,627	2,052	13,679	..	..	..	13,679		
Tools and plant	..	25	25	..	..	..	25		
Suspense account	..	..	..	..	..	..	..		
Total ..	62,177	12,189	74,366	..	..	..	74,366		
<i>Less—Receipts on capital account</i>	..	..	..	..	..	..	..		
Net Total ..	62,177	12,189	74,366	..	..	..	74,366		
<i>Indirect Charges.</i>									
Capitalized statement of land revenue ..	..	..	..	..	..	..	..		
Leave and pension allowances ..	1,628	288	1,916	..	..	..	1,916		
Total ..	1,628	288	1,916	..	..	..	1,916		
Grand Total ..	63,805	12,477	76,282	..	..	..	76,282		

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (closed in 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
C. Works	98,309	..	98,309	98,309	98,309
K. Buildings	8,827	..	8,827	8,827	8,827
O. Miscellaneous	1,029	..	1,029	1,029	1,029
Total ..	1,08,165	..	1,08,165	1,08,165	1,08,165
(2) <i>Main Canals and Branches—</i>					
B. Land	65,979	..	65,979	65,979	65,979
D. Regulators	48,818	..	48,818	48,818	48,818
E. Falls and weirs	13,094	..	13,094	13,094	13,094
F. (1) Other cross drainage works	59,847	..	59,847	59,847	59,847
G. Bridges	55,344	..	55,344	55,344	55,344
K. Buildings	6,045	..	6,045	6,045	6,045
L. Earthwork	1,04,628	..	1,04,628	1,04,628	1,04,628
N. Tanks and reservoirs	32,434	-1,497	30,937	91,150	..
Total ..	3,86,189	-1,497	3,84,692	4,44,905	3,53,755
<i>Reservoirs—</i>					
B. Land	1,35,313	..	1,35,313	1,35,313	1,35,313
C. Works	1,67,908	..	1,67,908	1,67,908	1,67,908
L. Earthwork	5,33,148	..	5,33,148	5,33,148	5,33,148
O. Miscellaneous	45,753	..	45,753	45,753	45,753
Total ..	8,82,122	..	8,82,122	8,82,122	8,82,122
(3) <i>Distributaries—</i>					
C. Works	4,368	..	4,368	4,368	4,368
L. Earthwork	2,275	..	2,275	2,275	2,275
Total ..	6,643	..	6,643	6,643	6,643
(4) <i>Drainage and protective works.</i>					
C. Works	2,672	..	2,672	2,672	2,672
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
<i>Provision for unforeseen works</i> ..	..	..	..	..	..
Total, Works ..	13,85,791	-1,497	13,84,294	14,44,507	13,53,357
II. ESTABLISHMENT	2,29,029	-285	2,28,744	2,50,296	2,22,722
III. TOOLS AND PLANT	6,928	-6	6,922	8,660	6,837
Grand Total ..	16,21,748	-1,788	16,19,960	17,03,463	15,82,916
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	1,302	..	1,302	1,302	1,302
(a) Net Total ..	16,20,446	-1,788	16,18,658	17,02,161	15,81,614
Chargeable to 43. Irrigation—					
Provincial	15,79,536	..	15,79,536	..	..
Chargeable to 55. Irrigation—					
2. Unproductive	40,910	-1,788	39,122	..	..
Total ..	16,20,446	-1,788	16,18,658	..	..

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
3. Sales of water ..	9,29,163	..	9,29,163	(1) Head works	6,704	..	6,704
Water-supply of towns.	1,83,745	40,397	2,24,142	(2) Main canals and branches	44,457	544	45,001
5. Receipts from plantations ..	2,243	..	2,243	(3) Distributaries	3,277	..	3,277
6. Receipts from other canal produce ..	5,197	..	5,197	(4) Drainage and protective works	613	..	613
9. Rents of buildings.	1,651	99	1,750	(5) Special tools and plant	22	..	22
10. Fines	39	..	39	Total ..	55,073	544	55,617
11. Miscellaneous ..	5,858	465	6,323	II. MAINTENANCE AND REPAIRS—			
Deduct—Refunds.	77	..	77	(1) Head works	61,876	..	61,876
Total, Revenue realized in Public Works Department	11,27,819	40,961	11,68,780	(2) Main canals and branches	7,44,324	16,586	7,60,890
Irrigation revenue realized in Civil Department	6,37,657	15,921	6,53,578	(3) Distributaries	3,980	..	3,980
Total, Direct Receipts ..	17,65,476	56,882	18,22,358	(4) Drainage and protective works	3,061	..	3,061
				(5) Special tools and plant	..	..	..
				Total ..	8,13,241	16,586	8,29,807
				Total, Extensions and Improvements and Maintenance and Repairs	8,68,314	17,110	8,85,424
				IV. ESTABLISHMENT	2,80,692	3,505	2,84,197
				V. TOOLS AND PLANT	9,571	65	9,636
				VI. REFUNDS OF REVENUE	88	..	88
				Deduct—Recoveries on Revenue account	1,065	..	1,065
				Total, Direct Charges ..	11,57,600	20,680	11,78,280

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
II. INDIRECT RECEIPTS—				Share of collection charges in the Civil Department ..	35,361	819	36,180
				Indirect charges	39,204	171	39,375
Share of land revenue collected in the Civil Department ..	25,801	462	26,263	Total, Direct and Indirect Charges ..	12,32,165	21,670	12,53,835
Total, Public Works and Civil Departments—Revenue	17,91,277	57,344	18,48,621	Deduct—Old maintenance charges saved to Government (a)	2,92,682	4,575	2,97,257
Total, Receipts ..	17,91,277	57,344	18,48,621	Net Total ..	9,39,483	17,095	9,56,578
				Balance, Net revenue ..	8,51,794	40,249	8,92,043
				Grand Total ..	17,91,277	57,344	18,48,621

(a) Extensions and improvements	RS.
Maintenance and repairs	3,600
Establishment	200
Tools and plant	723
	14
Total, Direct charges ..	4,537
Indirect charges	38
Total, Direct and Indirect charges ..	4,575

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	34,97,944	Net revenue realized to end of 1929-1930	8,51,794
Total interest charges for the year 1930-1931—	55,395	Net revenue realized during 1930-1931	40,249
		Balance, net interest charges.	26,61,296
Interest at 3·3252 per cent on the outlay to end of 1916-1917. 51,429			
Interest at 5·44 per cent on the outlay of Rs. 72,909 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	3,968		
Total ..	35,53,339	Total ..	35,53,339

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue.	2,08,120	..	2,08,120
Leave and pension allowances	31,522	..	31,522
Audit and accounts	340	— 15	325
Total ..	2,39,982	— 15	2,39,967
Revenue—			
Capitalization of abatement of land revenue.	1,095	..	1,095
Leave and pension allowances	36,257	..	36,257
Audit and accounts	1,852	171	2,023
Total ..	39,204	171	39,375
Grand Total ..	2,79,186	156	2,79,342

MADRAS WATER-SUPPLY AND IRRIGATION SYSTEM—*Tank Project*—cont.

No. 6.—Statement comparing charges to date with Sanctioned Estimate.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
<i>Direct Charges.</i>									
Works	12,97,799	55,558	13,53,357	30,937	91,150	60,213	13,84,294	C.R. No. 3 of April 1929. C.R. No. 29 of October 1929.	71,750
Establishment	2,12,547	10,175	2,22,722	6,022	27,574	21,552	2,28,744		19,400
Tools and plant	6,648	189	6,837	85	1,823	1,738	6,922		
Suspense account	..	..	..	..	..	..	..		
Total	15,16,994	65,922	15,82,916	37,044	1,20,547	83,503	16,13,960		91,160
Less—Receipts on Capital Account	1,167	135	1,302	..	..	..	1,302		
Net Total	15,15,827	65,787	15,81,614	37,044	1,20,547	83,503	16,18,658		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	2,08,120	..	2,08,120	..	..	..	2,08,120		
Leave and pension allowances	30,098	1,424	31,522	..	..	..	31,522		
Audit and accounts	..	16	16	309	964	655	325		
Total	2,38,218	1,440	2,39,658	309	964	655	2,39,967		
Grand Total	17,54,045	67,227	18,21,272	37,353	1,21,511	84,158	18,58,625		

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

RUSHIKULYA SYSTEM—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1901).	Expenditure against closed estimate.
	Previous.	1930-31.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses ..	15,476	..	15,476	15,476	15,476
B. Land ..	1,70,021	..	1,70,021	1,70,021	1,70,021
C. Works ..	14,01,941	7,501	14,09,442	14,11,282	13,82,782
K. Buildings ..	24,392	379	24,771	25,550	19,275
L. Earthwork ..	24,017	..	24,017	24,017	24,017
O. Miscellaneous ..	12,844	..	12,844	16,058	458
P. Maintenance ..	6,180	..	6,180	6,180	6,180
Total ..	16,54,871	7,880	16,62,751	16,68,584	16,18,209
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses ..	5,902	..	5,902	5,902	5,902
B. Land ..	87,078	44,445	1,31,523	1,23,842	86,387
C. Works ..	7,090	..	7,090	7,090	7,090
D. Regulators ..	25,013	6,137	31,150	31,630	24,945
E. Falls and weirs ..	10,200	..	10,200	10,200	10,200
F. (1) Other cross drainage works.	4,57,985	17,878	4,75,863	5,63,970	4,56,370
G. Bridges ..	1,10,780	5,268	1,16,048	1,13,855	1
I. Navigation Works ..	1	..	1	14,178	1,09,740
K. Buildings ..	12,535	3,304	15,839	1	10,563
L. Earthwork ..	9,58,002	15,570	9,73,572	9,96,664	9,49,564
M. Plantations ..	3,733	..	3,733	3,733	3,733
N. Tanks and reservoirs ..	978	..	978	978	978
O. Miscellaneous ..	10,189	242	10,431	16,020	10,325
P. Maintenance ..	1,694	..	1,694	1,694	1,694
Total ..	16,91,180	92,844	17,84,024	18,89,757	16,77,492
(3) <i>Distributaries—</i>					
A. Preliminary expenses ..	5,577	..	5,577	5,577	5,577
B. Land ..	88,190	..	88,190	1,01,153	88,183
C. Works ..	1,89,841	..	1,89,841	1,98,891	1,89,841
L. Earthwork ..	3,00,492	..	3,00,492	3,18,312	3,00,492
O. Miscellaneous ..	3,619	..	3,619	3,976	3,619
Unforeseen works ..	5,221	—5,221	..	..	..
Total ..	5,92,940	—5,221	5,87,719	6,27,909	5,87,712
(4) <i>Drainage and Protective— Works—</i>					
L. Earthwork ..	4,144	..	4,144	4,144	4,144
Total ..	4,144	..	4,144	4,144	4,144

RUSHIKULYA SYSTEM—*Tank Project*—cont.

No. 2.—Capital Account for and to end of 1930-1931—cont.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1901).	Expenditure against closed estimate.
	Previous.	1930-31.	Total.		
I. WORKS—cont.	RS.	RS.	RS.	RS.	RS.
(5) <i>Special tools and plant</i> ..	..	867	367	..	..
Provision for unforeseen works ..	..	..	..	20,128	..
Total, Works ..	39,43,135	96,370	40,39,505	42,10,522	38,87,557
II. ESTABLISHMENT ..	8,52,525	24,420	8,76,945	9,21,476	8,37,953
III. TOOLS AND PLANT ..	1,29,377	1,616	1,30,993	1,35,519	1,24,059
Grand Total ..	49,25,037	1,22,406	50,47,443	52,67,517	48,54,569
V. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT.	65,853	..	65,853	65,853	65,853
(a) Net Total ..	48,59,184	1,22,406	49,81,590	52,01,664	47,88,716
(a) Chargeable to " 35. Protective Works—Irrigation. "	47,07,008	..	47,07,008		
Chargeable to " 55-A. Irrigation Works—2. Unproductive. "	1,52,176	1,22,406	2,74,582		
Total ..	48,59,184	1,22,406	49,81,590		

RUSHIKULYA SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
1. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
1. Water-rates	25	..	25	(1) Head works	41,749	4,036	45,785
3. Sale of water	2,325	..	2,325	(2) Main canals and branches	72,800	19,205	92,005
4. Water-supply of town ..	25,325	1,225	26,550	(3) Distributaries	72,456	2,041	74,497
5. Receipts from plantations.	5,885	571	5,956	(4) Drainage and protective works	892	..	892
6. Receipts from other canal produce.	30,989	846	31,835	(5) Special tools and plant	..	..	..
8. Navigation receipts ..	24	..	24	Total ..	1,87,897	25,282	2,13,179
9. Rents of buildings ..	4,095	68	4,164	II. MAINTENANCE AND REPAIRS—			
10. Fines	17	..	17	(1) Head works	4,82,939	22,550	5,05,489
11. Miscellaneous	12,818	5	12,823	(2) Main canals and branches	8,27,284	52,391	8,79,675
Deduct—Refunds	77	..	77	(3) Distributaries	3,65,887	29,093	3,94,980
Total, Revenue realized in Public Works Department.	80,927	2,715	83,642	(4) Drainage and protective works	2,419	..	2,419
Irrigation revenue realized in Civil Department.	49,89,552	1,84,783	51,74,335	(5) Special tools and plant	1,363	..	1,363
Total, Direct Receipts ..	50,70,479	1,87,498	52,57,977	Total ..	16,79,892	1,04,034	17,83,926
				Total, Extensions and Improvements and Maintenance and Repairs.	18,67,789	1,29,316	19,97,105
				IV. ESTABLISHMENT	5,83,745	40,039	6,23,784
				V. TOOLS AND PLANT	38,967	2,168	41,135
				VI. REFUNDS OF REVENUE	88	..	88
				Deduct—Recoveries on Revenue account	397	..	397
				Total, Direct Charges ..	24,90,192	1,71,523	26,61,715

RUSHIKULYA SYSTEM—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	RS.	RS.	RS.	Share of collection charges in the Civil Department.	RS.	RS.	RS.
Share of land revenue collected in the Civil Department.	1,25,939	6,002	1,31,941	Indirect charges	2,54,255	9,437	2,63,692
					71,516	1,293	72,809
				Total, Direct and Indirect charges ..	28,15,963	1,82,253	29,98,216
				* Deduct—Old maintenance charge saved to Government.	1,15,095	7,148	1,22,243
Total, Public Works and Civil Departments, Revenue.	51,96,418	1,93,500	53,89,918				
				Net Total ..	27 00,868	1,75,105	28,75,973
				Balance, Net revenue	24,95,550	18,395	25,13,945
Total, Receipts ..	51,96,418	1,93,500	53,89,918	Grand Total ..	51,96,418	1,93,500	53,89,918

* Direct—

Extensions and improvements	1,475
Maintenance and repairs	4,108
Establishment	1,415
Tools and plant	94
Total, Direct ..	7,092
Indirect	56
Total, Direct and Indirect ..	7,148

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

RUSHIKULYA SYSTEM—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	64,01,073	Net revenue realized to end of 1929-1930.	24,95,550
Total interest charges for the year 1930-1931.	1,68,822	Net revenue realized during 1930-1931.	18,395
		Balance, net interest charges ..	40,55,950
Total ..	65,69,895	Total ..	65,69,895
Interest at 3.3252 per cent on the outlay to end of 1916-17.	1,55,421		
Interest at 5.44 per cent on the outlay of Rs. 2,46,339 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31.	13,401		
Total ..	1,68,822		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue ..	3,00,256	..	3,00,256
Leave and pension allowances	1,16,818	..	1,16,818
Audit and accounts	1,103	964	2,067
Total ..	4,18,177	964	4,19,141
Revenue—			
Capitalization of abatement of land revenue ..	1,516	..	1,516
Leave and pension allowances	62,515	..	62,515
Audit and accounts	7,485	1,293	8,778
Total ..	71,516	1,293	72,809
Grand Total ..	4,89,693	2,257	4,91,950

RUSHIKULYA, SYSTEM—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.				REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.	Total charges to date against old and current sanctions.	G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	35,19,326	3,68,231	38,87,557	1,51,948	3,22,965	1,71,017	40,39,505		
Establishment	7,46,990	90,563	8,37,553	38,992	83,523	44,531	8,76,945		
Tools and plant	1,26,941	2,118	1,29,059	1,934	6,460	4,526	1,30,993		
Suspense account	..	..	..	..	..	..	..		
Total ..	43,93,257	4,61,312	48,54,569	1,92,874	4,12,948	2,20,074	50,47,443		
Less—Receipts on capital account ..	7,851	58,002	65,853	..	..	..	65,853		
Net Total ..	43,85,406	4,03,310	47,88,716	1,92,874	4,12,948	2,20,074	49,81,590		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue.	2,92,911	7,252	3,00,163	93	..	— 93	3,00,266	Mis. 1816 I., 23rd Aug. 1927.	2,70,000
Leave and pension allowances ..	1,04,579	12,239	1,16,818	..	..	..	1,16,818	C.R. 16 of 7/27, Waltair..	15,600
Audit and accounts	..	548	548	1,519	530	— 989	2,067	C.R. 29 of 8/28 Do. ..	19,000
Total ..	3,97,490	20,039	4,17,529	1,612	530	— 1,082	4,19,141	.. 11 of 6/29 Suppl. ..	9,500
Grand Total ..	47,82,896	4,23,349	52,06,245	1,94,486	4,13,478	2,18,992	54,00,731	C.R. 44 of 11/28 Do. ..	6,275
								D.R. 1 of 29-30, Ganjam Division.	2,590
								Total ..	3,22,965

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

MUNIYERU SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated; closed in 1901-02.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS--	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses ..	57	..	57	57	57
C. Works	54,547	..	54,547	54,547	54,547
K. Buildings	5,822	..	5,822	5,822	5,822
P. Maintenance	9,815	..	9,815	9,815	9,815
Total ..	70,241	..	70,241	70,241	70,241
(2) <i>Main canals and Branches—</i>					
B. Land	10,011	..	10,011	10,011	10,011
D. Regulators	12,042	..	12,042	12,042	12,042
E. Falls and weirs	..	..	..	..	..
F. River and hill torrent works.	3,046	..	3,046	3,046	3,046
F.(1) Other cross drainage works.	85,903	..	85,903	85,903	85,903
G. Bridges	18,938	..	18,938	18,938	18,938
H. Escapes	..	..	..	..	..
K. Buildings	4,586	..	4,586	4,586	4,586
L. Earthwork	1,83,745	..	1,83,745	1,83,745	1,83,745
N. Tanks and reservoirs ..	6,359	..	6,359	6,359	6,359
O. Miscellaneous	2,734	..	2,734	2,734	2,734
P. Maintenance	107	..	107	107	107
Total ..	3,27,471	..	3,27,471	3,27,471	3,27,471
(3) <i>Distributaries—</i>					
C. Works	23,437	..	23,437	23,437	23,437
L. Earthwork	41,198	..	41,198	41,198	41,198
O. Miscellaneous	2,449	..	2,449	2,449	2,449
Total ..	67,084	..	67,084	67,084	67,084
(5) <i>Special tools and plant—</i>					
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	4,64,796	..	4,64,796	4,64,796	4,64,796
II. ESTABLISHMENT	1,04,516	..	1,04,516	1,04,516	1,04,516
III. TOOLS AND PLANT	3,728	..	3,728	3,728	3,728
Grand Total ..	5,73,040	..	5,73,040	5,73,040	5,73,040
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	1,732	..	1,732	1,732	1,732
Net Total ..	5,71,308	..	5,71,308	5,71,308	5,71,308
43. <i>Minor Works and Navigation—</i>					
Provincial	5,68,966	..	5,68,966	..	..
55. <i>A. Irrigation Works—</i>					
2. Unproductive	2,342	..	2,342	..	..
Total ..	5,71,308	..	5,71,308	..	..

MUNIYERU SYSTEM—Canal Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations.	1,119	..	1,119	(1) Head works	2,569	..	2,569
6. Receipts from other canal produce.	13,462	696	14,157	(2) Main canals and branches	5,007	..	5,007
9. Rents of buildings.	1,737	71	1,808	(3) Distributaries	968	6	974
11. Miscellaneous .. Recoveries of expenditure.	4,302	16	4,318	(4) Drainage and protective works	34	..	34
Deduct refunds.	61	..	61	(5) Special tools and plant	..	..	..
				Total ..	8,578	6	8,584
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	65,152	1,129	66,281
				(2) Main canals and branches	98,999	4,744	1,03,743
				(3) Distributaries	26,577	1,499	28,076
				(4) Drainage and protective works	10	..	10
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	1,90,738	7,372	1,98,110
Total, Revenue realized in Public Works Department.	20,559	785	21,344	Total, Extensions and Improvements and Maintenance and Repairs.	1,99,316	7,378	2,06,694
Irrigation Revenue realized in Civil Department.	5,75,326	35,295	6,10,621	IV. ESTABLISHMENT	63,092	3,332	66,424
				V. TOOLS AND PLANT	1,776	71	1,847
				VI. REFUNDS OF REVENUE	51	..	51
Total, Direct Receipts ..	5,95,885	36,080	6,31,965	Total, Direct Charges ..	2,64,235	10,781	2,75,016

II. INDIRECT RECEIPTS—

I. INDIRECT RECEIPTS—				Share of collection charges in the Civil						
Share of Land Revenue collected in the Civil Department ..	2,635	60	2,695	Department ..	..	..	..	28,896	1,768	30,664
				Indirect Charges ..	..	..	..	8,138	74	8,212
				Total, Direct and Indirect Charges ..				3,01,269	12,623	3,13,892
Total, Public Works and Civil Departments, Revenue	5,98,520	36,140	6,34,660	• Deduct—Old maintenance charges saved to Government				4,524	296	4,820
				Total, Direct and Indirect Charges ..				2,96,745	12,327	3,09,072
				Balance, net revenue				3,01,775	23,813	3,25,583
Total, Receipts ..	5,98,520	36,140	6,34,660	Grand Total ..				5,98,520	36,140	6,34,660

* Direct—

Extensions and improvements	Rs.
Maintenance and repairs	222
Establishment	70
Tools and plant	2
Total, Direct ..	294
Indirect	2
Total, Direct and Indirect ..	296

MUNIYERU SYSTEM—Canal Project—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	6,62,657	Net revenue realized to end of 1929-1930	3,01,775
Total interest charges for the year 1930-1931 ..	19,046	Net revenue realized during 1930-1931	23,813
		Balance, net interest charges.	3,56,115
Total ..	6,81,703	Total ..	6,81,703
Interest at 3.3252 per cent on the outlay to end of 1916-1917	18,919		
Interest at 5.44 per cent on the outlay of Rs. 2,342 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931.	127		
Total ..	19,046		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	15,104	..	15,104
Leave and pension allowances	14,631	..	14,631
Audit and accounts	16	..	16
Total ..	29,751	..	29,751
REVENUE—			
Capitalization of abatement of Land Revenue ..	9	..	9
Leave and pension allowances	7,547	..	7,547
Audit and accounts	582	74	656
Total ..	8,138	74	8,212
Grand Total ..	37,889	74	37,963

MUNIYERU SYSTEM—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.	<i>Direct Charges.</i>	
Works	4,63,179	1,617	4,64,796	..	..	..	4,64,796		
Establishment	1,03,806	710	1,04,516	..	..	..	1,04,516		
Tools and plant	3,713	15	3,728	..	..	..	3,728		
Suspense account	..	..	..	..	..	..	..		
Total	5,70,698	2,342	5,73,040	..	..	..	5,73,040		
<i>Less—</i> Receipts on Capital account	1,732	..	1,732	..	..	..	1,732		
Net Total	5,68,966	2,342	5,71,308	..	..	..	5,71,308		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	15,104	..	15,104	..	..	..	15,104		
Leave and pension allowances	14,532	99	14,631	..	..	..	14,631		
Audit and account	..	16	16	..	..	..	16		
Total	29,636	115	29,751	..	..	..	29,751		
Grand Total	5,98,602	2,457	6,01,059	..	..	..	6,01,059		

DONDAPAD TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1903).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	22,423	..	22,423	22,423	22,423
C. Works	28,821	..	28,821	28,821	28,821
L. Earthwork	38,320	..	38,320	38,320	38,320
P. Maintenance	10	..	10	10	10
Total ..	89,574	..	89,574	89,574	89,574
(3) <i>Distributaries—</i>					
B. Land	838	..	838	838	838
C. Works	5,456	..	5,456	5,456	5,456
L. Earthwork	9,860	..	9,860	9,860	9,860
O. Miscellaneous	120	..	120	120	120
Total ..	16,274	..	16,274	16,274	16,274
Total, Works ..	1,05,848	..	1,05,848	1,05,848	1,05,848
II. ESTABLISHMENT	18,945	..	18,945	18,945	18,945
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	1,24,793	..	1,24,793	1,24,793	1,24,793
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i>	7	..	7	7	7
(a) Net Total ..	1,24,786	..	1,24,786	1,24,786	1,24,786

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

DONDAPAD TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.		RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	165	..	165	(1) Head works	73	..	73
6. Receipts from other canal produce ..	631	..	631	(2) Main canals and branches	..	..	..
11. Miscellaneous ..	254	..	254	(3) Distributaries	722	..	722
				(4) Drainage and productive works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	795	..	795
Total, Revenue realized in Public Works Department ..	1,050	..	1,050	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department ..	23,388	636	24,024	(1) Head works	7,216	..	7,216
Total, Direct Receipts.	24,438	636	25,074	(2) Main canals and branches	149	..	149
				(3) Distributaries	3,683	..	3,683
II. INDIRECT RECEIPTS—				(4) Drainage and productive works	..	..	..
Share of land revenue collected in the Civil Department ..	92	10	102	(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
Total, Public Works and Civil Departments, Revenue ..	24,530	646	25,176	Total ..	11,048	..	11,048
Total, Receipts ..	24,530	646	25,176	Total, Extensions and Improvements and Maintenance and Repairs	11,843	..	11,843
				IV. ESTABLISHMENT	3,742	(a) 34	3,776
				V. TOOLS AND PLANT	34	..	34
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	15,619	34	15,653
				Share of collection charges in the Civil Department	1,172	32	1,204
				Indirect charges	494	..	494
				Total, Direct and Indirect Charges ..	17,285	66	17,351
				Balance, net revenue ..	7,245	580	7,825
				Grand Total ..	24,530	646	25,176

(a) Water Regulation Establishment.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY

DONDAPAD TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930	1,61,871	Net revenue realized to end of 1929–1930	7,245
Total interest charges for the year 1930–1931	4,149	Net revenue realized during 1930–1931	580
		Balance, net interest charges ..	1,58,195
Total ..	1,66,020	Total ..	1,66,020
Interest at 3·3252 per cent on the outlay to end of 1916–1917 ..	4,149		
Interest at 5·44 per cent on the outlay of Rs. nil from 1917–1918 to end of 1929–1930 plus half the outlay during 1930–1931 ..	..		
Total ..	4,149		

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous	1930–1931.	Total.
CAPITAL—	RS.		RS.
Capitalization of abatement of land revenue.	12,566	..	12,566
Leave and pension allowances	2,652	..	2,652
Total ..	15,218	..	15,218
REVENUE—			
Leave and pension allowances	482	..	482
Audit and accounts	12	..	12
Total ..	494	..	494
Grand Total ..	15,712	..	15,712

DUNDAPAD TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	96,521	9,327	1,05,848	..	..	..	1,05,848		
Establishment	17,017	1,928	18,945	..	..	..	18,945		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,13,538	11,255	1,24,793	..	..	..	1,24,793		
<i>Less—Receipts on Capital account</i> ..	7	..	7	..	..	..	7		
Net Total ..	1,13,531	11,255	1,24,786	..	..	..	1,24,786		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	12,062	504	12,566	..	..	..	12,566		
Leave and pension allowances ..	2,382	270	2,652	..	..	..	2,652		
Total ..	14,444	774	15,218	..	..	..	15,218		
Grand Total ..	1,27,975	12,029	1,40,004	..	..	..	1,40,004		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

YERUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1907).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works—</i>					
B. Land	..	..	..	..	..
C. Works	10,767	..	10,767	10,767	10,767
K. Buildings	..	..	..	..	..
L. Earthwork	39,452	..	39,452	39,452	39,452
O. Miscellaneous	..	..	..	..	..
Total	50,219	..	50,219	50,219	50,219
(3) <i>Distributaries—</i>					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total	..	..	..	..	..
Provision for unforeseen works.	..	..	..	..	..
Total, Works	50,219	..	50,219	50,219	50,219
II. ESTABLISHMENT	11,522	..	11,522	11,522	11,522
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total	61,741	..	61,741	61,741	61,741
V. Less—RECEIPTS ON CAPITAL ACCOUNT	..	..	..	..	..
(a) Net Total	61,741	..	61,741	61,741	61,741

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

YERUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930–1931.

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Receipts.	Total.			Charges.	Total.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
6. Receipts from other canal produce ..	..	..	..	(1) Head works	235	..	235
9. Rents of buildings.	..	..	..	(2) Main canals and branches	..	..	..
11. Miscellaneous ..	..	..	..	(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	235	..	235
Total, Revenue realized in Public Works Department ..	..	..	..	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	15,757	243	16,000
Irrigation Revenue realized in Civil Department ..	41,598	3,675	45,273	(2) Main canals and branches	..	..	..
Total, Direct Receipts.	41,598	3,675	45,273	(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
II. INDIRECT RECEIPTS—				(5) Special tools and plant	..	..	..
Share of land revenue collected in the Civil Department ..	1,065	86	1,151	Total ..	15,757	243	16,000
Total, Public Works and Civil Departments, Revenue ..	42,663	3,761	46,424	Total, Extensions and Improvements and Maintenance and Repairs	15,992	243	16,235
				IV. ESTABLISHMENT	3,473	181	3,654
Total, Receipts ..	42,663	3,761	46,424	V. TOOLS AND PLANT	82	2	84
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	19,547	426	19,973
				Share of collection charges in the Civil Department ..	2,134	188	2,322
				Indirect charges	414	2	416
				Total, Direct and Indirect Charges	22,095	616	22,711
				Balance, net revenue	20,568	3,145	23,713
				Grand Total ..	42,663	3,761	46,424

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930–1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

YERUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	53,183	Net revenue realized to end of 1929-1930	20,568
Total interest charges for the year 1930-1931	2,053	Net revenue realized during 1930-1931	3,145
		Balance, net interest charges ..	31,523
Total ..	55,236	Total ..	55,236
Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	2,053		
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 ..	..		
Total ..	2,053		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Leave and pension allowances ..	1,612	..	1,612
Total ..	1,612	..	1,612
REVENUE—			
Leave and pension allowances ..	387	..	387
Audit and accounts	27	2	29
Total ..	414	2	416
Grand Total ..	2,026	2	2,028

YERUR TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	48,303	1,916	50,219	..	..	..	50,219		
Establishment	11,110	412	11,522	..	..	..	11,522		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	59,413	2,328	61,741	..	..	..	61,741		
<i>Less</i> —Receipts on capital account	..	..	..	..	..	..	..		
Net Total ..	59,413	2,328	61,741	..	..	..	61,741		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	1,555	57	1,612	..	..	..	1,612		
Total ..	1,555	57	1,612	..	..	..	1,612		
Grand Total ..	60,968	2,385	63,353	..	..	..	63,353		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

SAGILERU SYSTEM—Canal Project.

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1907).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works—</i>					
A. Preliminary expenses ..	3,855	..	3,855	3,855	3,855
B. Land ..	1,298	..	1,298	1,298	1,298
C. Works ..	75,377	..	75,377	75,377	75,377
K. Buildings ..	10,668	..	10,668	10,668	10,668
O. Miscellaneous ..	164	..	164	164	164
P. Maintenance ..	231	..	231	231	231
Total ..	91,593	..	91,593	91,593	91,593
(2) <i>Main Canals and Branches—</i>					
B. Land ..	2,804	..	2,804	2,804	2,804
D. Regulators ..	25,785	..	25,785	25,785	25,785
E. (1) Other cross drainage works ..	46,581	..	46,581	46,581	46,581
G. Bridges ..	23,832	..	23,832	23,832	23,832
H. Escapes ..	8,062	..	8,062	8,062	8,062
K. Buildings ..	2,460	..	2,460	2,460	2,460
L. Earthwork ..	1,22,383	..	1,22,383	1,22,383	1,22,383
N. Tanks and reservoirs ..	28,388	..	28,388	28,388	28,388
O. Miscellaneous ..	1,669	..	1,669	1,669	1,669
P. Maintenance ..	764	..	764	764	764
Total ..	2,62,728	..	2,62,728	2,62,728	2,62,728
(3) <i>Distributaries—</i>					
L. Earthwork ..	..	..	..	..	..
Total ..	..	..	..	..	..
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	3,54,321	..	3,54,321	3,54,321	3,54,321
II. ESTABLISHMENT ..	80,339	..	80,339	80,339	80,339
III. TOOLS AND PLANT ..	12,449	..	12,449	12,449	12,449
Grand Total ..	4,47,109	..	4,47,109	4,47,109	4,47,109
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i> ..	1	..	1	1	1
(a) Net Total ..	4,47,108	..	4,47,108	4,47,108	4,47,108

(a) Chargeable to "43. Mirror Works and Navigation—Provincial."

SAGILERU SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations	53	..	53	(1) Head works	108	..	108
6. Receipts from other canal produce ..	209	..	209	(2) Main canals and branches	8,875	266	9,141
9. Rents of buildings ..	831	45	876	(3) Distributaries	693	..	693
11. Miscellaneous and other receipts ..	168	..	168	(4) Drainage and protective works	..	..	..
Total, Revenue realized in Public Works Department ..	1,261	45	1,306	(5) Special tools and plant	..	..	..
Irrigation Revenue realized in Civil Department ..	71,231	508	71,739	Total ..	9,676	266	9,942
Total, Direct Receipts.	72,492	553	73,045	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	8,700	347	9,047
				(2) Main canals and branches	77,087	5,664	82,751
				(3) Distributaries	3,299	..	3,299
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	89,086	6,011	95,097
				Total, Extensions and Improvements and Maintenance and Repairs	98,762	6,277	1,05,039
				IV. ESTABLISHMENT	30,312	1,220	31,532
				V. TOOLS AND PLANT	479	24	503
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	1,29,553	7,521	1,37,074

SAGILERU SYSTEM—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
II. INDIRECT RECEIPTS—							
Share of land revenue collected in the Civil Department ..	216	26	242	Share of collection charges in the Civil Department ..	3,571	27	3,598
				Indirect charges	3,851	63	3,914
Total, Public Works and Civil Departments, Revenue ..	72,708	579	73,287	Total, Direct and Indirect Charges ..	1,36,975	7,611	1,44,586
Net deficit, if any ..	17,811	4,400	22,211	* Deduct old maintenance charges saved to Government	46,456	2,632	49,088
				Net Total ..	90,519	4,979	95,498
				Balance, Net revenue	..	..	..
Total ..	90,519	4,979	95,498	Grand Total ..	90,519	4,979	95,498

* Direct—								RS.
Extensions and Improvements	..	..	..	..	..	..	..	500
Maintenance and Repairs	..	..	..	..	..	..	..	1,685
Establishment	..	..	..	..	..	..	..	416
Tools and plant	..	..	..	..	..	..	..	9
								<u>2,610</u>
Total, Direct ..								2,610
Indirect	..	..	..	..	..	..	..	22
								<u>2,632</u>
Total, Direct and Indirect ..								2,632

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

SAGILERU SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	5,48,932	Net revenue realized to end of 1929-1930.	— 17,811
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931.	— 4,400
Interest at 8.3252 per cent on the outlay to end of 1916-1917 ..	14,867	Balance, net interest charges ..	5,86,010
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 + half the outlay during 1930-1931 Nil.	14,867		
Total ..	5,63,799	Total ..	5,63,799

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue	6,372	..	6,372
Leave and pension allowances	11,247	..	11,247
Total ..	17,619	..	17,619
REVENUE—			
Leave and pension allowances	3,540	..	3,540
Audit and accounts	311	63	374
Total ..	3,851	63	3,914
Grand Total ..	21,470	63	21,533

SAGILERU SYSTEM—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.							CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
							Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>							RS.		RS.				RS.		
Works ..	..	..	..	..	..	3,54,321	..	3,54,321	..	..	..	3,54,321			
Establishment ..	..	..	..	..	..	80,339	..	80,339	..	..	..	80,339			
Tools and plant ..	..	..	..	..	..	12,449	..	12,449	..	..	..	12,449			
Suspense account ..	..	..	..	..	..	..	..	..	..	..	..	..			
Total ..						4,47,109	..	4,47,109	..	..	..	4,47,109			
Less—Receipts on capital account						1	..	1	..	..	..	1			
Net Total ..						4,47,108	..	4,47,108	..	..	..	4,47,108			
<i>Indirect Charges.</i>															
Capitalized abatement of land revenue ..	..	..	..	..	..	6,372	..	6,372	..	..	..	6,372			
Leave and pension allowances ..	..	..	..	..	..	11,247	..	11,247	..	..	..	11,247			
Total ..						17,619	..	17,619	..	..	..	17,619			
Grand Total ..						4,64,727	..	4,64,727	..	..	..	4,64,727			

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

ATMAKUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st August 1907).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	9,024	..	9,024	9,024	9,024
C. Works	36,966	..	36,966	36,966	36,966
K. Buildings	..	..	..	..	..
L. Earthwork	35,535	..	35,535	35,535	35,535
O. Miscellaneous	75	..	75	75	75
P. Maintenance	66	..	66	66	66
Total	81,666	..	81,666	81,666	81,666
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses	..	..	..	..	..
B. Land	..	..	..	..	..
E. Falls and weirs	..	..	..	..	..
F. (1) Other cross drainage works	..	..	..	..	..
G. Bridges	..	..	..	..	..
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total	..	..	..	..	..
(3) <i>Distributaries—</i>					
B. Land	493	..	493	493	493
C. Works	3,282	..	3,282	3,282	3,282
L. Earthwork	5,512	..	5,512	5,512	5,512
O. Miscellaneous	249	..	249	249	249
P. Maintenance	..	..	..	..	..
Total	9,536	..	9,536	9,536	9,536
Provision for unforeseen works	..	..	..	..	..
Total, Works	91,202	..	91,202	91,202	91,202
II. ESTABLISHMENT	18,749	..	18,749	18,749	18,749
III. TOOLS AND PLANT	..	..	..	..	..
(a) Grand Total	1,09,951	..	1,09,951	1,09,951	1,09,951

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ATMAKUR TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Sale of water	..	..	..	(1) Head works	766	..	766
4. Water-supply of towns ..	..	..	..	(2) Main canals and branches	..	..	..
6. Receipts from plantations ..	..	..	..	(3) Distributaries	136	..	136
6. Receipts from other canal produce	3	..	3	(4) Drainage and protective works	..	..	..
8. Navigation receipts	..	..	..	(5) Special tools and plant	..	..	..
9. Rents of buildings	..	..	..	Total ..	902	..	902
10. Fines	..	..	..	II. MAINTENANCE AND REPAIRS—			
11. Miscellaneous	7	..	7	(1) Head works	7,342	..	7,342
Total, Revenue realized in the Public Works Department ..	10	..	10	(2) Main canals and branches	473	..	473
Irrigation Revenue realized in Civil Department	39,768	2,974	42,742	(3) Distributaries	3,472	..	3,472
Total, Direct Receipts ..	39,778	2,974	42,752	(4) Drainage and protective works	..	..	..
II. INDIRECT RECEIPTS—				(5) Special tools and plant	..	..	..
Share of Land Revenue collected in the Civil Department	..	..	..	Add—Unclassifiable outlay	..	..	..
Total, Public Works and Civil Departments, Revenue ..	39,778	2,974	42,752	Total ..	11,287	..	11,287
Total, Receipts ..	39,778	2,974	42,752	Total, Extensions and Improvements and Maintenance and Repairs	12,189	..	12,189
				IV. ESTABLISHMENT	4,731	110	4,841
				V. TOOLS AND PLANT	60	..	60
				Deduct—Recoveries on Revenue account ..	100	..	100
				Total, Direct Charges ..	16,880	110	16,990
				Share of collection charges in the Civil Department ..	1,986	149	2,135
				Indirect charges	625	..	625
				Total, Direct and Indirect Charges	19,491	259	19,750
				Balance, net revenue	20,287	2,715	23,002
				Grand Total ..	39,778	2,974	42,752

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY

ATMAKUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	96,020	Net revenue realized to end of 1929-1930	20,287
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	2,715
Interest at 3.3252 per cent on the outlay to end of 1916-17	3,656	Balance, net interest charges ..	76,674
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-18 to end of 1929-30 + half the outlay during 1930-31.			
Balance, net revenue	..		
Total ..	99,676	Total ..	99,676

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.		RS.
CAPITAL—			
Capitalization of abatement of land revenue.	10,802	..	10,802
Leave and pension allowances	2,626	..	2,626
Total ..	13,428	..	13,428
REVENUE—			
Leave and pension allowances	551	..	551
Audit and accounts	74	..	74
Total ..	625	..	625
Grand Total ..	14,053	..	14,053

ATMAKUR TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.		RS.				RS.		
Works	91,202	..	91,202	..	..	..	91,202		
Establishment	18,749	..	18,749	..	..	..	18,749		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,09,951	..	1,09,951	..	..	..	1,09,951		
Less—Receipts on Capital account	..	..	..	..	..	..	..		
Net Total ..	1,09,951	..	1,09,951	..	..	..	1,09,951		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	10,802	..	10,802	..	..	..	10,802		
Leave and pension allowances	2,626	..	2,626	..	..	..	2,626		
Total ..	13,428	..	13,428	..	..	..	13,428		
Grand Total ..	1,23,379	..	1,23,379	..	..	..	1,23,379		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

JANGAMAHESWARAPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1908).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works</i> —					
B. Land	13,487	..	13,487	13,487	13,487
C. Works	10,899	..	10,899	10,899	10,899
K. Buildings	..	..	..	..	..
L. Earthwork	6,959	..	6,959	6,959	6,959
O. Miscellaneous	72	..	72	72	72
Total	31,417	..	31,417	31,417	31,417
(3) <i>Distributaries</i> —					
B. Land	695	..	695	695	695
C. Works	7,500	..	7,500	7,500	7,500
L. Earthwork	12,704	..	12,704	12,704	12,704
O. Miscellaneous	248	..	248	248	248
Total	21,147	..	21,147	21,147	21,147
Provision for unforeseen works.	..	..	..	..	..
Total, Works	52,564	..	52,564	52,564	52,564
II. ESTABLISHMENT	8,689	..	8,689	8,689	8,689
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total	61,253	..	61,253	61,253	61,253
IV. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i>	..	..	..	..	..
(a) Net Total	61,253	..	61,253	61,253	61,253

(a) Chargeable to "43. Minor Works and Navigation—Provincial".

JANGAMAHESWARAPURAM TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RE.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations.	2	..	2	(1) Head works	177	..	177
6. Receipts from other canal produce	1,075	..	1,075	(2) Main canals and branches	32	..	32
11. Miscellaneous	1	..	1	(3) Distributaries	587	..	587
Total, Revenue realized in Public Works Department	1,078	..	1,078	(4) Drainage and protective works	..	..	..
Irrigation revenue realized in Civil Department	17,974	825	18,799	(5) Special tools and plant	..	..	..
Total, Direct Receipts ..	19,052	825	19,877	Total ..	796	..	796
II. INDIRECT RECEIPTS—				II. MAINTENANCE AND REPAIRS—			
Share of land revenue collected in the Civil Department.		..	..	(1) Head works	891	..	891
Total, Public Works and Civil Departments, Revenue ..	19,052	825	19,877	(2) Main canals and branches	334	..	334
				(3) Distributaries	3,214	..	3,214
				(4) Drainage and protective works	467	..	467
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	4,906	..	4,906
				Total, Extensions and Improvements and Maintenance and Repairs ..	5,702	..	5,702
				IV. ESTABLISHMENT	2,415	(a) 41	2,456
				V. TOOLS AND PLANT	— 9	..	— 9
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	8,108	41	8,149
				Share of collection charges in the Civil Department	896	41	937
				Indirect charges	331	..	331
				Total, Direct and Indirect Charges ..	9,335	82	9,417
				Balance, net revenue	9,717	743	10,460
(a) Total, Receipts ..	19,052	825	19,877	Grand Total ..	19,052	825	19,877

(a) Water regulation establishment.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

JANGAMAHESWARAPURAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	55,347	Net revenue realized to end of 1929-1930	9,717
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	743
Interest at 3·3252 per cent on the outlay to end of 1917-18 ..	2,034	Balance, net interest charges.	46,926
Interest at 5·44 per cent on the outlay of Rs. 81 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31. ..	5		
	2,039		
Total ..	57,386	Total ..	57,386

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.		RS.
CAPITAL—			
Capitalization of abatement of land revenue	9,194	..	9,194
Leave and pension allowances ..	1,217	..	1,217
Total ..	10,411	..	10,411
REVENUE—			
Leave and pension allowances ..	317	..	317
Audit and accounts	14	..	14
Total ..	331	..	331
Grand Total ..	10,742	..	10,742

JANGAMAHESWARAPURAM TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	50,980	1,584	52,564	..	..	..	52,564		
Establishment	8,352	337	8,689	..	..	..	8,689		
Tools and plant.. .. .	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	59,332	1,921	61,253	..	..	..	61,253		
<i>Less—Receipts on Capital account</i>	..	..	..	..	..	..	..		
Net total ..	59,332	1,921	61,253	..	..	..	61,253		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	9,194	..	9,194	..	..	..	9,194		
Leave and pension allowances	1,170	47	1,217	..	..	..	1,217		
Total ..	10,364	47	10,411	..	..	..	10,411		
Grand Total ..	69,696	1,968	71,664	..	..	..	71,664		

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1910).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) <i>Main Canals and Branches—</i>					
B. Land	110	..	110	110	110
C. Works	6,282	..	6,282	6,282	6,282
F. River and hill torrent works.	2,081	..	2,081	2,081	2,081
F. (1) Other cross drainage works	3,311	..	3,311	3,311	3,311
L. Earthwork	46,528	..	46,528	46,528	46,528
O. Miscellaneous	109	..	109	109	109
Total ..	58,421	..	58,421	58,421	58,421
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	58,421	..	58,421	58,421	58,421
II. ESTABLISHMENT	13,266	..	13,266	13,266	13,266
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	71,687	..	71,687	71,687	71,687
V. <i>Loss—RECEIPTS ON CAPITAL ACCOUNT.</i>	..	..	..	..	..
(a) Net Total ..	71,687	..	71,687	71,687	71,687

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce ..	..	..	..	(1) Head works	388	..	388
9. Rents of buildings	..	..	..	(2) Main canals and branches ..	..	..	..
11. Miscellaneous	32	..	32	(3) Distributaries	..	..	..
Total, Revenue realized in Public Works Department	32	..	32	(4) Drainage and protective works ..	..	..	..
Irrigation Revenue realized in Civil Department	— 2,815	1,972	— 843	(5) Special tools and plant ..	..	..	..
Total, Direct Receipts ..	— 2,783	1,972	— 811	Total ..	388	..	388
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	5,991	..	5,991
				(2) Main canals and branches ..	3,205	..	3,205
				(3) Distributaries	..	..	..
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Add—Unclassifiable outlay ..	..	..	..
				Total ..	9,196	..	9,196
				Total, Extensions and Improvements and Maintenance and Repairs ..	9,584	..	9,584
				IV. ESTABLISHMENT	2,490	9	2,499
				V. TOOLS AND PLANT	40	..	40
				VI. REFUNDS OF REVENUE ..	..	..	..
II. INDIRECT RECEIPTS—				Total, Direct Charges ..	12,114	9	12,123
Share of land revenue collected in the Civil Department	22	1	23	Share of collection charges in the Civil Department	— 138	99	— 39

Total, Public Works and Civil Departments, Revenue	— 2,761	— 1,973	— 788	Indirect charges	182	..	182
Net deficit, if any	2,958	— 2,719	239	Total, Direct and Indirect Charges.	12,158	108	12,266
				* Deduct—			
				Old maintenance charges saved to Government	11,961	854	12,815
				Net Total ..	197	— 746	— 549
				Balance, net revenue ..	..	..	..
Total ..	197	— 746	— 549	Grand Total ..	197	— 746	— 549

* Direct—								Rs.
Extensions and improvements	..	..	..	..	..	..	..	28
Maintenance and Repairs	..	..	..	..	..	..	..	612
Establishment ..	..	..	..	..	..	..	..	202
Tools and Plant	..	..	..	..	..	..	..	6
Total, Direct								848
Indirect	..	..	..	..	..	..	..	6
Total, Direct and Indirect								854

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	56,097	Net revenue realized to end of 1929-1930.	— 2,958
Total interest charges for the year 1930-1931.	2,384	Net revenue realized during 1930-1931.	2,719
		Balance, net interest charges ..	58,720
Total ..	58,481	Total ..	58,481

Interest at 3.3252 per cent on the outlay to end of 1916-17	RS. 2,384
Interest at 5.44 per cent on the outlay of rupees nil from 1917-18 to end 1929-30 plus half the outlay during 1930-31	..
Total ..	2,384

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.		RS.
Capitalization of abatement of land revenue ..	30	..	30
Leave and pension allowances	1,856	..	1,856
Total ..	1,886	..	1,886
REVENUE—			
Leave and pension allowances	115	..	115
Audit and Accounts	67	..	67
Total ..	182	..	182
Grand Total ..	2,068	..	2,068

ANAMASAMUDRAM-BERAPERU TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	52,139	6,282	58,421	..	..	..	58,421		
Establishment	11,915	1,351	13,266	..	..	..	13,266		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	64,054	7,633	71,687	..	..	..	71,687		
<i>Less—Receipts on Capital account</i> ..	..	..	..	..	..	..	..		
Net total ..	64,054	7,633	71,687	..	..	..	71,687		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	30	..	30	..	..	..	30		
Leave and pension allowances	1,667	189	1,856	..	..	..	1,856		
Total ..	1,697	189	1,886	..	..	..	1,886		
Grand Total ..	65,751	7,822	73,573	..	..	..	73,573		

HAJIPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1911).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS--					
(1) <i>Head Works</i> --					
B. Land	19,227	..	19,227	19,227	19,227
C. Works	28,750	..	28,750	28,750	28,750
K. Buildings	913	..	913	913	913
L. Earthwork	1,66,992	..	1,66,992	1,66,992	1,66,992
P. Maintenance	3,842	..	3,842	3,842	3,842
O. Miscellaneous	..	..	..	..	..
Total ..	2,19,724	..	2,19,724	2,19,724	2,19,724
(3) <i>Distributaries</i> --					
B. Land	1,156	..	1,156	1,156	1,156
C. Works	3,869	..	3,869	3,869	3,869
L. Earthwork	5,421	..	5,421	5,421	5,421
O. Miscellaneous	516	..	516	516	516
Total ..	10,962	..	10,962	10,962	10,962
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	2,30,686	..	2,30,686	2,30,686	2,30,686
II. ESTABLISHMENT	48,308	..	48,308	48,308	48,308
III. TOOLS AND PLANT	..	..	..	..	..
Grand Total ..	2,78,994	..	2,78,994	2,78,994	2,78,994
V. <i>Less</i> --RECEIPTS ON CAPITAL ACCOUNT	220	..	220	220	220
(a) Net Total ..	2,78,774	..	2,78,774	2,78,774	2,78,774

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

HAJIPURAM TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
Receipts from other				(1) Head works	421	798	1,219
canal produce ..	101	..	101	(2) Main canals and branches	..	..	..
Miscellaneous ..	11,175	329	11,504	(3) Distributaries	..	..	..
				(4) Drainage and protective works	130	..	130
				(5) Special tools and plant	..	..	..
Total, Revenue realized in Public Works Department ..	11,276	329	11,605	Total ..	551	798	1,349
Irrigation Revenue realized in Civil Department ..	47,184	2,867	50,051	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	5,130	505	5,635
				(2) Main canals and branches	83	..	83
				(3) Distributaries	232	..	232
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
Total, Direct Receipts.	58,460	3,198	61,656	Total ..	5,445	505	5,950
II. INDIRECT RECEIPTS—				Total, Extensions and Improvements and Maintenance and Repairs	5,996	1,303	7,299
Share of land revenue collected in the Civil Department ..	361	15	316	IV. ESTABLISHMENT	2,271	511	2,782
				V. TOOLS AND PLANT	45	13	58
				VI. REFUNDS OF REVENUE	..	..	..
Total, Public Works and Civil Departments, Revenue ..	58,761	3,211	61,972	Total, Direct Charges ..	8,312	1,827	10,139
				Share of collection charges in the Civil Department ..	2,374	144	2,518
				Indirect charges	322	13	335
				Total, Direct and Indirect Charges ..	11,008	1,984	12,992
				Balance, net revenue ..	47,753	1,227	48,980
Total, Receipts ..	58,761	3,211	61,972	Grand Total ..	58,761	3,211	61,972

HAJIPURAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,32,186	Net revenue realized to end of 1929-30	47,753
Total interest charges for the year 1930-1931	9,270	Net revenue realized during 1930-1931	1,227
		Balance, net interest charges ..	1,92,476
Total ..	2,41,456	Total ..	2,41,456

	RS.
Interest at 3.3252 per cent on the outlay to end of 1916-17.. .. .	9,270
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-18 to end of 1929-30 plus half the outlay during 1930-31	..
Total ..	9,270

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
Capital—	RS.	RS.	RS.
Capitalization of abatement of land revenue	26,346	..	26,346
Leave and pension allowances	6,763	..	6,763
Total ..	33,109	..	33,109
Revenue—			
Capitalization of abatement of land revenue	105	..	105
Leave and pension allowances	171	..	171
Audit and accounts	46	13	59
Total ..	322	13	335
Grand Total ..	33,431	13	33,444

HAJIPURAM TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

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Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
	RS.	RS.	RS.				RS.		
<i>Direct Charges.</i>									
Works	2,28,024	2,862	2,30,686	..	..	..	2,30,686		
Establishment	47,880	428	48,308	..	..	..	48,308		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	2,75,904	3,090	2,78,994	..	..	..	2,78,994		
Less—Receipts on Capital account	220	..	220	..	..	..	220		
Net Total ..	2,75,684	3,090	2,78,774	..	..	..	2,78,774		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	25,879	467	26,346	..	..	..	26,346		
Leave and pension allowances	6,703	60	6,763	..	..	..	6,763		
Total ..	32,582	527	33,109	..	..	..	33,109		
Grand Total ..	3,08,266	3,617	3,11,883	..	..	..	3,11,883		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY

PONNALUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1911).	Expenditure against closed estimate
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	20,407	..	20,407	20,407	20,407
C. Works	48,656	..	48,656	48,656	48,656
K. Buildings	411	..	411	411	411
L. Earthwork	73,402	..	73,402	73,402	73,402
O. Miscellaneous	10,211	..	10,211	10,211	10,211
P. Maintenance	1,052	..	1,052	1,052	1,052
Total ..	1,54,139	..	1,54,139	1,54,139	1,54,139
(2) <i>Main Canals and Branches—</i>					
A Preliminary expenses..	..	..	..	..	..
B. Land	..	..	..	..	..
E. Falls and weirs ..	..	..	..	..	..
F. (1) Other cross drainage works	..	..	..	..	..
G. Bridges	..	..	..	..	..
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	..	..	..	..	..
(3) <i>Distributaries—</i>					
B. Land	812	..	812	812	812
C. Works	3,959	..	3,959	3,959	3,959
L. Earthwork	1,715	..	1,715	1,715	1,715
O. Miscellaneous	638	..	638	638	638
P. Maintenance	..	..	..	..	..
Total ..	7,124	..	7,124	7,124	7,124
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	1,61,263	..	1,61,263	1,61,263	1,61,263
II. ESTABLISHMENT	31,658	..	31,658	31,658	31,658
III. TOOLS AND PLANT	54	..	54	54	54
Grand Total ..	1,92,975	..	1,92,975	1,92,975	1,92,975
Chargeable to 43. Minor Works and Navigation Provincial ..	1,90,997	..	1,90,997	..	..
Chargeable to 55-A. Irrigation—					
2. Unproductive	1,978	..	1,978	..	..
Total ..	1,92,975	..	1,92,975	..	..

PONNALUR TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930—1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1929-1930.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	..	..	..	(1) Head works	3,522	..	3,522
6. Receipts from other canal produce. ..	..	..	..	(2) Main canals and branches	..	..	..
11. Miscellaneous ..	176	..	176	(3) Distributaries	..	..	..
Deduct—Refunds ..	22	..	22	(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
Total, Revenue realized in Public Works Department ..	154	..	154	Total ..	3,522	..	3,522
Irrigation revenue realized in Civil Department ..	85,043	5,424	90,467	II. MAINTENANCE AND REPAIRS—			
Total, Direct Receipts.	85,197	5,424	90,621	(1) Head works	50,820	1,201	52,021
II. INDIRECT RECEIPTS—				(2) Main canals and branches	18,071	..	18,071
Share of land revenue collected in the Civil Department ..	..	..	..	(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
Total, Public Works and Civil Departments, Revenue ..	85,197	5,424	90,621	(5) Special tools and plant	..	..	..
Net deficit, if any ..	12,145	— 3,438	8,707	Add—Unclassifiable outlay	..	..	..
				Total ..	68,891	1,201	70,092
				Total, Extensions and Improvements and Maintenance and Repairs ..	72,413	1,201	73,614
				IV. ESTABLISHMENT	18,140	491	18,631
				V. TOOLS AND PLANT	163	11	174
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	90,716	1,703	92,419
				Share of collection charges in the Civil Department	4,255	271	4,526
				Indirect charges	2,371	12	2,383
				Total, Direct and Indirect Charges	97,342	1,986	99,328
				Balance, net revenue ..	..	..	..
Total ..	97,342	1,986	99,328	Grand Total ..	97,342	1,986	99,328

PONNALUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930	1,62,806	Net revenue realized to end of 1929–1930	— 12,145
Total interest charges for the year 1930–1931	6,980*	Net revenue realized during 1930–1931	3,438
		Balance, net interest charges ..	1,78,493
Total ..	1,69,786	Total ..	1,69,786

* Interest at 3·32½ per cent on the outlay to end of 1916–1917	RS. 5,532
Interest at 5·44 per cent on the outlay of Rs. 26,613 from 1917–1918 to end of 1929–1930 plus half the outlay during 1930–1931	1,448
Total ..	6,980

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous.	1930–1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue.	21,230	..	21,230
Leave and pension allowances	4,431	..	4,431
Audit and accounts	13	..	13
Total ..	25,674	..	25,674
REVENUE—			
Leave and pension allowances	2,186	..	2,186
Audit and accounts	185	12	197
Total ..	2,371	12	2,383
Grand Total ..	28,045	12	28,057

PONNALUR TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.	RS.	RS.				RS.		
Works	1,39,349	21,914	1,61,263	..	..	..	1,61,263		
Establishment	27,013	4,645	31,658	..	..	..	31,658		
Tools and plant	..	54	54	..	..	..	54		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,66,362	26,613	1,92,975	..	..	..	1,92,975		
<i>Less—Receipts on Capital account</i>	..	..	..	..	..	..	..		
Net Total ..	1,66,362	26,613	1,92,975	..	..	..	1,92,975		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue ..	21,230	..	21,230	..	..	..	21,230		
Leave and pension allowances	3,781	650	4,431	..	..	..	4,431		
Audit and accounts	..	13	13	..	..	..	13		
Total ..	25,011	663	25,674	..	..	..	25,674		
Grand Total ..	1,91,373	27,276	2,18,649	..	..	..	2,18,649		

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

MARKAPUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1911).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	163	..	163	163	163
C. Works	41,177	..	41,177	41,177	41,177
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total ..	41,440	..	41,340	41,340	41,340
(2) <i>Main Canals and Branches—</i>					
B. Land	2,499	..	2,499	2,499	2,499
C. Works	14,831	..	14,831	14,831	14,831
E. River and hill torrent works	..	..	..	..	..
F. (1) Other cross drainage works	..	..	..	..	..
K. Buildings	887	..	887	887	887
L. Earthwork	41,540	..	41,540	41,540	41,540
O. Miscellaneous	277	..	277	277	277
Total ..	60,034	..	60,034	60,034	60,034
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	1,01,374	..	1,01,374	1,01,374	1,01,374
II. ESTABLISHMENT ..	23,066	..	23,066	23,066	23,066
III. TOOLS AND PLANT ..	41	..	41	41	41
Grand Total ..	1,24,481	..	1,24,481	1,24,481	1,24,481
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i>	..	..	..	..	..
Net Total * ..	1,24,481	..	1,24,481	1,24,481	1,24,481

		Direct charges.		
		Previous.	1930-1931.	Total.
		RS.		RS.
* Chargeable to 43. Minor Works and Navigation—Provincial	..	1,16,657	..	1,16,657
Chargeable to 55-A. Irrigation—2. Unproductive	..	7,824	..	7,824
Total ..	..	1,24,481	..	1,24,481

MARKAPUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	..	.	.	(1) Head works	872	..	872
6. Receipts from other canal produce	95	..	95	(2) Main canals and branches	3,325	..	3,325
11. Miscellaneous	233	..	233	(3) Distributaries	105	..	105
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	4,302	..	4,302
Total, Revenue realized in Public Works Department ..	328	..	328	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department	81,308	4,852	86,160	(1) Head works	18,803	1,694	20,497
				(2) Main canals and branches	21,765	..	21,765
				(3) Distributaries	1,049	..	1,049
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	41,617	1,694	43,311
				Total, Extensions and Improvements and Maintenance and Repairs	45,919	1,694	47,613
				IV. ESTABLISHMENT	15,774	456	16,230
				V. TOOLS AND PLANT	212	6	218
				VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Receipts ..	81,636	4,852	86,488	Total, Direct Charges ..	61,905	2,156	64,061

MARKAPUR TANK—*Tank Project*—cont.No. 3.—Revenue Account for and to end of 1930-1931—*cont.*

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	RS.	RS.	RS.	Share of collection charges in the Civil	RS.	RS.	RS.
Share of Land Revenue collected in the Civil Department	18	1	19.	Department	4,065	243	4,308
				Indirect Charges	1,784	16	1,800
Total, Public Works and Civil Departments, Revenue	81,654	4,853	86,507	Total, Direct and Indirect Charges ..	67,754	2,415	70,169
				Deduct—Old maintenance charges saved to Government*	5,150	291	5,441
				Net Total	62,604	2,124	64,728
				Balance, net revenue	19,050	2,729	21,779
Total, Receipts	81,654	4,853	86,507	Grand Total	81,654	4,853	86,507

* Direct—	RS.
Extensions and improvements	29
Maintenance and repairs	213
Establishment	46
Tools and plant	1
Total, Direct	289
Indirect	2
Total, Direct and Indirect	291

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

MARKAPUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	88,289	Net revenue realized to end of 1929-1930	19,050
Total interest charges for the year 1930-1931 ..	4,305*	Net revenue realized during 1930-1931	2,729
		Balance, net interest charges.	70,815
Total ..	92,594	Total ..	92,594

	RS.
* Interest at 3.3252 per cent on the outlay to end of 1916-1917	3,879
Interest at 5.44 per cent on the outlay of Rs. 7,824 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	426
Total ..	4,305

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	
CAPITAL—			
Capitalization of abatement of land revenue	1,595	..	1,595
Leave and pension allowances ..	3,206	..	3,206
Audit and accounts	58	..	58
Total ..	4,859	..	4,859
REVENUE—			
Capitalization of abatement of land revenue	19	..	19
Leave and pension allowances ..	1,484	..	1,484
Audit and accounts	281	16	297
Total ..	1,784	16	1,800
Grand Total ..	6,643	16	6,659

MARKAPUR TANK—Tank Project—cont.

No. 6.—Statement comparing charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and Date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	94,107	7,267	1,01,374	..	..	..	1,01,374	..	..
Establishment	20,846	2,220	23,066	..	..	..	23,066	..	..
Tools and plant	..	41	41	..	..	..	41	..	..
Suspense account	..	..	..	..	..	..	..	..	..
Total ..	1,14,953	9,528	1,24,481	..	..	..	1,24,481	..	..
<i>Less—Receipts on Capital account</i> ..	..	..	..	..	..	..	..	..	..
Net Total ..	1,14,953	9,528	1,24,481	..	..	..	1,24,481	..	..
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	1,595	1,595	..	..	..	1,595	..	..
Leave and pension allowances	2,918	288	3,206	..	..	..	3,206	..	..
Audit and accounts	..	58	58	..	..	..	58	..	..
Total ..	2,918	1,941	4,859	..	..	..	4,859	..	..
Grand Total ..	1,17,871	11,469	1,29,340	..	..	..	1,29,340	..	..

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

NAGAVALLI RIVER SYSTEM—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st December 1913.)	Expenditure against closed estimates.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses.	48	..	48	48	48
B. Land	..	..	..	..	..
C. Works	4,50,504	..	4,50,504	4,50,504	4,50,504
K. Buildings	20,792	..	20,792	20,792	20,792
O. Miscellaneous	..	..	..	..	..
Unforeseen works	..	..	..	..	..
Total ..	4,71,344	..	4,71,344	4,71,344	4,71,344
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses.	2,937	..	2,937	2,937	2,937
B. Land	28,266	..	28,266	28,266	28,266
D. Regulators	3,121	..	3,121	3,121	3,121
E. Falls and weirs	10,847	..	10,847	10,847	10,847
F. River and hill torrent works.	17	..	17	17	17
F. (1) Other cross drainage works.	2,42,440	..	2,42,440	2,42,440	2,42,440
G. Bridges	7,981	..	7,981	7,981	7,981
H. Escapes	822	..	822	822	822
I. Navigation	..	..	..	..	..
K. Buildings	10,738	..	10,738	10,738	10,738
L. Earthwork	2,79,678	..	2,79,678	2,79,678	2,79,678
O. Miscellaneous	3,037	..	3,037	3,037	3,037
P. Maintenance	..	..	..	..	..
Unforeseen works	295	..	295	295	295
Total ..	5,90,179	..	5,90,179	5,90,179	5,90,179
(3) <i>Distributaries—</i>					
B. Land	24,662	..	24,662	24,662	24,662
C. Works	99,146	..	99,146	99,146	99,146
L. Earthwork	1,12,646	..	1,12,646	1,12,646	1,12,646
O. Miscellaneous	6,897	1,039	7,936	11,897	6,897
P. Maintenance	..	..	..	..	..
Unforeseen works	..	..	..	..	..
Total ..	2,43,351	1,089	2,44,390	2,48,351	2,43,351

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.No. 2.—Capital Account for and to end of 1930-1931—*cont.*

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st December 1913).	Expenditure against closed estimates.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS— <i>cont.</i>					
(5) <i>Special tools and plant—</i>					
Maintenance during construction	16,500	..	16,500	16,500	16,500
General improvements.	..	..	..	..	..
Total, Works ..	13,21,374	1,039	13,22,413	13,26,374	13,21,374
II. ESTABLISHMENT ..	2,70,103	264	2,70,367	2,71,616	2,70,103
III. TOOLS AND PLANT ..	93,282	17	93,299	93,382	93,282
IV. SUSPENSE ACCOUNTS ..	..	..	..	..	..
Grand Total ..	16,84,759	1,320	16,86,079	16,91,372	16,84,759
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT</i> ..	4,303	..	4,303	4,303	4,303
Net Total ..	16,80,456	1,320	16,81,776	16,87,069	16,80,456
<i>Apportionment—</i>					
Chargeable to 46. Irrigation	16,52,196	..	16,52,196	..	..
Chargeable to 43. Minor Works and Navigation—Provincial ..	2,126	..	2,126	..	..
Chargeable to 55-A. Irrigation works—1. Productive	26,134	1,320	27,454	..	..
Total ..	16,80,456	1,320	16,81,776	..	..

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations ..	82	..	82	(1) Head works	1,705	..	1,705
6. Receipts from other canal produce	6,065	413	6,478	(2) Main canals and branches	23,042	2,175	25,217
8. Navigation	1	..	1	(3) Distributaries	15,434	..	15,434
9. Rents of buildings	2,398	54	2,452	(4) Drainage and protective works	..	..	..
11. Miscellaneous	3,735	6	3,741	(5) Special tools and plant	..	..	..
Recoveries of expenditure	..	178	178	Total ..	40,181	2,175	42,356
Deduct—Refunds	120	..	120	II. MAINTENANCE AND REPAIRS—			
Total, Revenue realized in Public Works Department	12,161	651	12,812	(1) Head works	81,755	6,078	87,833
Irrigation Revenue realized in Civil Department	10,83,468	66,726	11,50,194	(2) Main canals and branches	1,48,072	7,522	1,55,594
				(3) Distributaries	43,484	2,076	45,560
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	2,73,311	15,676	2,88,987
				Total, Extensions and Improvements and Maintenance and Repairs	3,13,492	17,851	3,31,343
				IV. ESTABLISHMENT	1,36,322	6,738	1,43,060
				V. TOOLS AND PLANT	5,050	299	5,349
				VI. REFUNDS OF REVENUE	281	..	281
Total, Direct Receipts ..	10,95,629	67,377	11,63,006	Total, Direct Charges ..	4,55,145	24,888	4,80,033

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
II. INDIRECT RECEIPTS—	RS.	RS.	RS.	Share of collection charges in the Civil Department	RS.	RS.	RS.
Shares of land revenue collected in the Civil Department ..	1,77,733	21,214	1,98,947	Indirect Charges	55,320	3,611	58,931
Total, Public Works and Civil Departments, Revenue ..	12,73,362	88,591	13,61,953	Total, Direct and Indirect Charges ..	17,024	179	17,203
Total, Receipts ..	12,73,362	88,591	13,61,953	Deduct—Old maintenance charges saved to Government *	5,27,489	28,678	5,56,167
				Net Total ..	56,325	3,703	60,028
				Balance, net revenue ..	4,71,164	24,975	4,96,139
				Grand Total ..	8,02,198	63,616	8,65,814
					12,73,362	88,591	13,61,953

* Direct—

Extensions and improvements	RS.
Maintenance and repairs	1,432
Establishment	1,482
Tools and plant	732
	48
Total, Direct ..	3,674
Indirect	29
Total, Direct and Indirect ..	3,703

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
Total interest charges to end of 1929-1930	RS. 12,11,886	Net revenue realized to end of 1929-1930	RS. 8,02,198
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	63,616
Interest at 3·3252 per cent on the outlay to end of 1916-17.. 54,385		Balance net interest charges ..	4,02,936
Interest at 5·44 per cent on the outlay of Rs. 45,566 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31 2,479	56,864		
Total ..	12,68,750	Total ..	12,68,750

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue ..	4,342	..	4,342
Leave and pension allowances	37,815	..	37,815
Audit and accounts	165	10	175
Total ..	42,322	10	42,332
REVENUE—			
Capitalization of abatement of land revenue ..	..	..	..
Leave and pension allowances	15,600	..	15,600
Audit and accounts	1,424	179	1,603
Total ..	17,024	179	17,203
Grand Total ..	59,346	189	59,535

NAGAVALLI RIVER SYSTEM—*Canal Project*—cont.
No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>								C.P. No. 1 of April 1930.	RS. 5,000
Works	RS. 12,24,720	RS. 96,654	RS. 13,21,374	RS. 1,039	RS. 5,000	RS. 3,961	RS. 13,22,413		
Establishment	2,42,924	27,179	2,70,103	284	1,513	1,249	2,70,387		
Tools and plant	93,355	— 73	93,282	17	100	83	93,299		
Suspense account	..	..	..	..	..	..	..		
Total ..	15,60,999	1,23,760	16,84,759	1,320	6,613	5,293	16,86,079		
Less—Receipts on Capital account	1,374	2,929	4,303	..	..	..	4,303		
Net Total ..	15,59,625	1,20,831	16,80,456	1,320	6,613	5,293	16,81,776		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	3,273	1,069	4,342	..	..	..	4,342		
Leave and pension allowances	34,009	3,806	37,815	..	..	..	37,815		
Audit and accounts ..	..	165	165	10	50	40	175		
Total ..	37,282	5,040	42,322	10	50	40	42,332		
Grand Total ..	15,96,907	1,25,871	17,22,778	1,330	6,663	5,333	17,24,108		

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

VENKATAPURAM TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1918).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works—</i>					
A. Preliminary expenses ..	..	..	..	..	..
B. Land	1,781	..	1,781	1,781	1,781
C. Works	52,327	..	52,327	52,327	52,327
K. Buildings.. ..	1,884	..	1,884	1,884	1,884
L. Earthwork	2,30,139	..	2,30,139	2,30,139	2,30,139
O. Miscellaneous	332	..	332	332	332
Total ..	2,86,463	..	2,86,463	2,86,463	2,86,463
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses ..	19	..	19	19	19
B. Land	2,702	..	2,702	2,702	2,702
C. Works	7,878	..	7,878	7,878	7,878
D. Regulators	..	..	..	..	..
F. Rivers and Hill Torrents.	..	..	..	..	..
F. (1) Other cross drainage works.	..	..	..	..	..
G. Bridges	..	..	..	..	..
K. Buildings	..	..	..	..	..
L. Earthwork	6,890	..	6,890	6,890	6,890
O. Miscellaneous	41	..	41	41	41
P. Maintenance	..	..	..	..	..
Total ..	17,530	..	17,530	17,530	17,530
(3) <i>Distributaries—</i>					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	..	..	..	..	..
(5) <i>Special tools and plant—</i>	1	..	1	1	1
Provision for unforeseen works.	..	..	..	..	..
Total, Works ..	3,03,994	..	3,03,994	3,03,994	3,03,994
II. ESTABLISHMENT	64,539	..	64,539	64,539	64,539
III. TOOLS AND PLANT	4,236	..	4,236	4,236	4,236
Grand Total ..	3,72,769	..	3,72,769	3,72,769	3,72,769
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	519	..	519	519	519
(a) Net Total ..	3,72,250	..	3,72,250	3,72,250	3,72,250
Chargeable to 35. Protective Works— Irrigation.	3,71,838	..	3,71,838	..	..
Chargeable to 55. Irrigation Works— Unproductive.	412	..	412	..	..
Total ..	3,72,250	..	3,72,250	..	..

VENKATAPURAM TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	Total.			Charges.	Total.		
	Previous	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce.	..	..	..	(1) Head works	125	..	125
9. Rents of buildings	..	..	..	(2) Main canals and branches	123	..	123
11. Miscellaneous	..	..	..	(3) Distributaries	..	..	..
Total, Revenue realized in Public Works Department.	..	..	..	(4) Drainage and protective works	..	..	..
Irrigation Revenue realized in Civil Department.	5,218	758	5,976	Total ..	248	..	248
Total, Direct Receipts ..	5,218	758	5,976	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	4,308	316	4,624
II. INDIRECT RECEIPTS—				(2) Main canals and branches	1,743	..	1,743
Share of Land Revenue collected in the Civil Department.	..	23	23	(3) Distributaries	..	..	..
Total, Public Works and Civil Departments, Revenue.	5,218	781	5,999	(4) Drainage and protective works	..	..	..
Net deficit, if any	4,890	— 341	4,549	Total ..	6,051	316	6,367
Total ..	10,108	440	10,548	Total, Extensions and Improvements and Maintenance and Repairs.	6,299	316	6,615
				IV. ESTABLISHMENT	3,105	81	3,186
				V. TOOLS AND PLANT	49	1	50
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	9,453	398	9,851
				Share of collection charges in the Civil Department.	260	39	299
				Indirect Charges	395	3	398
				Total, Direct and Indirect Charges ..	10,108	440	10,548
				Balance, Net revenue	..	..	..
				Grand Total ..	10,108	440	10,548

IRRIGATION BRANCH.

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PUBLIC WORKS DEPARTMENT.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

VENKATAPURAM TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,26,758	Net revenue realized to end of 1929-1930	— 4,890
Total interest charges for the year 1930-1931	12,933	Net revenue realized during 1930-1931	341
		Balance, net interest charges	2,44,240
Total ..	2,39,691	Total ..	2,39,691
Interest at 3.3252 per cent on the outlay to end of 1916-17	11,506		
Interest at 5.44 per cent on the outlay of Rs. 26,22 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31	1,427		
Total ..	12,933		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue ..	3,635	..	3,635
Leave and pension allowances	9,034	..	9,034
Audit and accounts	2	..	2
Total ..	12,671	..	12,671
REVENUE—			
Capitalization of abatement of land revenue ..	..	..	..
Leave and pension allowances	343	..	343
Audit and accounts	52	3	55
Total ..	395	3	398
Grand Total ..	13,066	3	13,069

VENKATAPURAM TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against canal sanction.	Total.	Charges of date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	3,00,808	3,186	3,03,994	..	..	..	3,03,994		
Establishment	62,353	2,186	64,539	..	..	..	64,539		
Tools and plant	4,205	31	4,236	..	..	..	4,236		
Suspense account	..	..	..	..	..	..	..		
Total ..	3,67,366	5,403	3,72,769	..	..	..	3,72,769		
Less—Receipts on Capital Account ..	519	..	519	..	..	..	519		
Net Total ..	3,66,847	5,403	3,72,250	..	..	..	3,72,250		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	3,627	8	3,635	..	..	..	3,635		
Leave and pension allowances	8,728	306	9,034	..	..	..	9,034		
Audit and accounts	..	2	2	..	..	..	2		
Total ..	12,355	316	12,671	..	..	..	12,671		
Grand Total ..	3,79,202	5,719	3,84,921	..	..	..	3,84,921		

ADMINISTRATIVE ACCOUNTS FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BHAVANASI TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1919).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
A. Preliminary expenses.	1,188	..	1,188	1,188	1,188
B. Land	8,508	..	8,508	8,508	8,508
C. Works	2,556	..	2,556	2,556	2,556
F. Falls and Weirs ..	14,059	..	14,059	14,059	14,059
L. Earthwork	1,16,658	..	1,16,658	1,16,658	1,16,658
O. Miscellaneous ..	123	..	123	123	123
Total ..	1,43,092	..	1,43,092	1,43,092	1,43,092
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses.	17	..	17	17	17
B. Land	7,604	..	7,604	7,604	7,604
C. Works	14,438	..	14,438	14,438	14,438
D. Regulators	..	..	..	..	..
F. Rivers and Hill Torrents.	..	..	..	..	..
F. (1) Other cross drainage works.	..	..	..	..	..
G. Bridges	..	..	..	..	..
K. Buildings	..	..	..	..	..
L. Earthwork	29,494	..	29,494	29,494	29,494
M. Plantations	..	..	..	..	..
O. Miscellaneous ..	303	..	303	303	303
P. Maintenance ..	152	..	152	152	152
Total ..	52,008	..	52,008	52,008	52,008
(3) <i>Distributaries—</i>					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous ..	..	..	..	..	..
P. Maintenance ..	..	..	..	..	..
Total ..	..	..	..	..	..
(5) <i>Special tools and plant—</i>	— 9,221	..	— 9,221	— 9,221	— 9,221
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	1,85,879	..	1,85,879	1,85,879	1,85,879
II. ESTABLISHMENT	43,103	..	43,103	43,103	43,103
III. TOOLS AND PLANT	25,710	..	25,710	25,710	25,710
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNTS.</i>	2,54,692	..	2,54,692	2,54,692	2,54,692
Grand Total ..	2,54,395	..	2,54,395	2,54,395	2,54,395
Chargeable to 35. Protective works—Irrigation.	2,49,581	..	2,49,581	..	..
Chargeable to 55-A. Irrigation works—2. Unproductive.	4,814	..	4,814	..	..
	2,54,395	..	2,54,395	..	..

BHAVANASI TANK—*Tank Project*—cont.
No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	..	..	..	(1) Head works	61	479	540
6. Receipts from other canal produce ..	43	35	78	(2) Main canals and branches	272	..	272
11. Miscellaneous ..	201	..	201	(3) Distributaries	1,376	..	1,376
Total, Revenue realized in Public Works Department	244	35	279	(4) Drainage and protective works	..	..	..
Irrigation revenue realized in Civil Department ..	41,464	5,205	46,669	(5) Special tools and plant	..	..	..
Total, Direct Receipts.	41,708	5,240	46,948	Total ..	1,709	479	2,188
II. INDIRECT RECEIPTS—				II. MAINTENANCE AND REPAIRS—			
Share of land revenue collected in the Civil Department	..	..	..	(1) Head works	990	..	990
Total, Public Works and Civil Department, Revenue ..	41,708	5,240	46,948	(2) Main canals and branches	23,153	1,219	24,372
Net deficit, if any ..	4,472	— 2,648	1,824	(3) Distributaries	3,050	..	3,050
Total ..	46,180	2,592	48,772	(4) Drainage and protective works	1,309	..	1,309
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total ..	28,502	1,219	29,721
				Total, Extensions and Improvements and Maintenance and Repairs ..	30,211	1,698	31,909
				IV. ESTABLISHMENT	12,514	601	13,115
				V. TOOLS AND PLANT	223	16	239
				VI. REFUNDS OF REVENUE	..	..	..
				Deduct—Recoveries on Revenue account ..	400	..	400
				Total, Direct Charges ..	42,548	2,315	44,863
				Share of collection charges in the Civil Department	2,073	260	2,333
				Indirect charges	1,559	17	1,576
				Total, Direct and Indirect Charges ..	46,180	2,592	48,772
				Balance, net revenue ..	..	..	..
				Grand Total ..	46,180	2,592	48,772

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BHAVANASI TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,40,103	Net revenue realized to end of 1929-1930	— 1,472
Total interest charges for the year 1930-1931	10,060	Net revenue realized during 1930-1931	2,648
		Balance, net interest charges ..	1,51,987
Total ..	1,50,163	Total ..	1,50,163

	RS.
* Interest at 3·3252 per cent on the outlay to end of 1916-1917	5,941
Interest at 5·44 per cent on the outlay of Rs. 75,718 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	4,119
Total ..	10,060

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
CAPITAL—	RS.	RS.	RS.
Capitalization of abatement of land revenue.	5,027	..	5,027
Leave and pension allowances	6,034	..	6,034
Audit and accounts	35	..	35
Total ..	11,096	..	11,096
REVENUE—			
Capitalization of abatement of land revenue.	..	..	..
Leave and pension allowances	1,282	..	1,282
Audit and accounts	277	17	294
Total ..	1,559	17	1,576
Grand Total ..	12,655	17	12,672

BHAVANASI TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimate.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		RS.
Works	1,82,434	3,445	1,85,879	..	..	..	1,85,879		
Establishment	41,653	1,450	43,103	..	..	..	43,103		
Tools and plant	25,660	50	25,710	..	..	..	25,710		
Suspense account	..	..	..	..	..	..	..		
Total ..	2,49,747	4,945	2,54,692	..	..	..	2,54,692		
<i>Less—Receipts on Capital account.</i>	166	131	297	..	..	..	297		
Net Total ..	2,49,581	4,814	2,54,395	..	..	..	2,54,395		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	5,027	..	5,027	..	..	..	5,027		
Leave and pension allowances	5,831	203	6,034	..	..	..	6,034		
Audit and accounts	..	35	35	..	..	..	35		
Total ..	10,858	238	11,096	..	..	..	11,096		
Grand Total ..	2,60,439	5,052	2,65,491	..	..	..	2,65,491		

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

YELLANUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Construction estimate closed on 31st March 1919.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works</i> —					
B. Land ..	13,755	..	13,755	13,755	13,755
C. Works ..	19,102	..	19,102	19,102	19,102
L. Earthwork ..	1,40,087	..	1,40,087	1,40,087	1,40,087
O. Miscellaneous ..	11,085	..	11,085	11,085	11,085
Total ..	1,84,029	..	1,84,029	1,84,029	1,84,029
(3) <i>Distributaries</i> —					
B. Land ..	1,017	..	1,017	1,017	1,017
C. Works ..	4,836	..	4,836	4,836	4,836
L. Earthwork ..	1,410	..	1,410	1,410	1,410
O. Miscellaneous ..	..	..	..	..	..
Total ..	7,263	..	7,263	7,263	7,263
(5) <i>Special tools and plant</i>	..	..	..	..	..
Provision for unforeseen works	..	..	..	..	..
Total Works ..	1,91,292	..	1,91,292	1,91,292	1,91,292
II. ESTABLISHMENT ..	41,156	..	41,156	41,156	41,156
III. TOOLS AND PLANT.	7,087	..	7,087	7,087	7,087
Grand Total ..	2,39,535	..	2,39,535	2,39,535	2,39,535
V. <i>Less</i> —RECEIPTS ON CAPITAL ACCOUNT.	343	..	343	343	343
Net Total * ..	2,39,192	..	2,39,192	2,39,192	2,39,192

* Chargeable to "43. Minor Works and Navigation—Provincial."

YELLANUR TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
6. Receipts from other canal produce ..	..	..	..	(1) Head works	..	..	..
9. Rents of buildings. ..	..	..	..	(2) Main canals and branches	..	..	..
11. Miscellaneous ..	..	..	..	(3) Distributaries	19	..	19
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	19	..	19
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	4,320	200	4,520
				(2) Main canals and branches	209	..	209
				(3) Distributaries	242	..	242
				(4) Drainage and protective works	27	..	27
				(5) Special tools and plant	..	..	..
				Total ..	4,798	200	4,998
				Total, Extensions and Improvements and Maintenance and Repairs	4,817	200	5,017
				IV. ESTABLISHMENT	1,974	160	2,134
				V. TOOLS AND PLANT	28	1	29
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	6,819	361	7,180
				Share of collection charges in the Civil Department	1,451	185	1,636
				Indirect charges	228	2	230
				Total, Direct and Indirect Charges ..	8,498	548	9,046
Total, Revenue realized in Public Works Department ..	..	..	..				
Irrigation—Revenue realized in Civil Department ..	29,031	3,096	32,127				
Total, Direct Receipts ..	29,031	3,096	32,127				
II. INDIRECT RECEIPTS—							
Share of land revenue collected in the Civil Department ..	3,983	1,104	5,087				

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

Total, Public Works and Civil Depart- ments, Revenue ..	33,014	4,200	37,214	Total ..	8,498	548	9,046
					24,516	3,652	28,168
Total, Receipts ..	33,014	4,200	37,214	Grand Total ..	33,014	4,200	37,214

YELLANUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,51,451	Net revenue realized to end of 1929-1930	24,516
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	3,652
Interest at 3·3252 per cent on the outlay to end of 1916-1917 .. 7,350		Balance, net interest charges ..	1,31,621
Interest at 5·44 per cent on the outlay of Rs. 18,162 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 988	8,338		
Total ..	1,59,789	Total ..	1,59,789

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	24,753	..	24,753
Leave and pension allowances	5,762	..	5,762
Total ..	30,515	..	30,515
REVENUE—			
Leave and pension allowances . . .	185	..	185
Audit and account	43	2	45
Total ..	228	2	230
Grand Total ..	30,743	2	30,745

YELLANUR TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	1,83,348	7,944	1,91,292	..	..	..	1,91,292		
Establishment	40,150	1,006	41,156	..	..	..	41,156		
Tools and plant	7,072	15	7,087	..	..	..	7,087		
Suspense account	..	..	..	..	..	..	..		
Total ..	2,30,570	8,965	2,39,535	..	..	..	2,39,535		
Less—Receipts on Capital account	..	343	343	..	..	..	343		
Net Total ..	2,30,570	8,622	2,39,192	..	..	..	2,39,192		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	24,753	..	24,753	..	..	..	24,753		
Leave and pension allowances	5,621	141	5,762	..	..	..	5,762		
Total ..	30,374	141	30,515	..	..	..	30,515		
Grand Total ..	2,60,944	8,763	2,69,707	..	..	..	2,69,707		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KOCHERUVU TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st March 1919).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	9,714	..	9,714	9,714	9,714
C. Works	39,331	..	39,331	39,331	39,331
K. Buildings	1,238	..	1,238	1,238	1,238
L. Earthwork	42,981	..	42,981	42,981	42,981
O. Miscellaneous	17	..	17	17	17
P. Maintenance	..	..	..	..	..
Total ..	93,281	..	93,281	93,281	93,281
(2) <i>Main Canals and Branches—</i>					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
D. Regulators	2,339	..	2,339	2,339	2,339
L. Earthwork	5,826	..	5,826	5,826	5,826
O. Miscellaneous	15	..	15	15	15
Total ..	8,180	..	8,180	8,180	8,180
(5) <i>Special tools and plant</i> ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	1,01,461	..	1,01,461	1,01,461	1,01,461
II. ESTABLISHMENT	22,158	..	22,158	22,158	22,158
III. TOOLS AND PLANT	1,046	..	1,046	1,046	1,046
Grand Total ..	1,24,665	..	1,24,665	1,24,665	1,24,665
V. <i>Less—Receipts on Capital account</i>	60	..	60	60	60
Net Total* ..	1,24,605	..	1,24,605	1,24,605	1,24,605

* Chargeable to "43. Minor Works and Navigation—Provincial."

KOCHERUVO TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6. Receipts from other canal produce.	..	..	..	(1) Head works	545	..	545
9. Rents of buildings	..	..	..	(2) Main canals and branches ..	269	..	269
11. Miscellaneous	21	..	21	(3) Distributaries	718	..	718
				(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Total ..	1,532	..	1,532
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	6,730	175	6,905
Total, Revenue realized in Public Works Department	21	..	21	(2) Main canals and branches ..	1,868	..	1,868
				(3) Distributaries	..	..	..
Irrigation Revenue realized in Civil Department	— 2,373	14	— 2,359	(4) Drainage and protective works ..	..	..	..
				(5) Special tools and plant ..	..	..	..
				Total ..	8,598	175	8,773
				Total, Extensions and Improvements and Maintenance and Repairs	10,130	175	10,305
				IV. ESTABLISHMENT	5,548	31	5,579
Total, Direct Receipts ..	— 2,352	14	— 2,338	V. TOOLS AND PLANT	100	1	101

KOCHERUVU TANK—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931—cont.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
II. INDIRECT RECEIPTS—				VI. REFUNDS OF REVENUE	4	..	4
Share of land revenue collected in the Civil Department	..	9	9	Total, Direct Charges ..	15,782	207	15,989
Total, Public Works and Civil Departments, Revenue	— 2,352	23	— 2,329	Share of collection charges in the Civil Department	—119	1	— 118
Net deficit, if any ..	18,723	187	18,910	Indirect charges	708	2	710
				Total, Direct and Indirect Charges ..	16,371	210	16,581
				Balance, net revenue ..	..	..	..
Total ..	16,371	210	16,581	Grand Total ..	16,371	210	16,581

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KOCHERUVU TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	76,338	Net revenue realized to end of 1929-1930	— 18,723
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	— 187
Interest at 3·3252 per cent on the outlay to end of 1916-1917 ..	3,851	Balance, net interest charges ..	99,578
Interest at 5·44 per cent on the outlay of Rs. 8,800 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931.	479		
	4,330		
Total ..	80,668	Total ..	80,668

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	8,027	..	8,027
Leave and pension allowances	3,102	..	3,102
Audit and accounts	..	..	..
Total ..	11,129	..	11,129
REVENUE—			
Leave and pension allowances	647	.. 2	647
Audit and accounts	61	..	63
Total ..	708	2	710
Grand Total ..	11,837	2	11,839

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

KOCHERUVU TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.		RS.				RS.		
Works	1,01,461	..	1,01,461	..	..	..	1,01,461		
Establishment ..	22,158	..	22,158	..	..	..	22,158		
Tools and plant ..	1,046	..	1,046	..	..	..	1,046		
Suspense account ..	..	..	..	..	..	..	..		
Total ..	1,24,665	..	1,24,665	..	..	..	1,24,665		
<i>Less</i> —Receipts on Capital Account.	60	..	60	..	..	..	60		
Net total ..	1,24,605	..	1,24,605	..	..	..	1,24,605		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	8,027	..	8,027	..	..	..	8,027		
Leave and pension allowances ..	3,102	..	3,102	..	..	..	3,102		
Total ..	11,129	..	11,129	..	..	..	11,129		
Grand Total ..	1,35,734	..	1,35,734	..	..	..	1,35,734		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PANJAPATTI RESERVOIR—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Construction estimate closed on 30th June 1919.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) Head Works—					
A. Preliminary Expenses ..	936	..	936	936	936
B. Land	60,152	..	60,152	60,152	60,152
C. Works	5,562	..	5,562	5,562	5,562
E. Falls and Weirs ..	6,017	..	6,017	6,017	6,017
K. Buildings	4,799	..	4,799	4,799	4,799
L. Earthwork	1,51,024	..	1,51,024	1,51,024	1,51,024
O. Miscellaneous	6,298	..	6,298	6,298	6,298
P. Maintenance	3,684	..	3,684	3,684	3,684
Total ..	2,38,472	..	2,38,472	2,38,472	2,38,472
(3) Distributaries—					
A. Preliminary Expenses ..	425	..	425	425	425
B. Land	2,517	..	2,517	2,517	2,517
C. Works	115	..	115	115	115
L. Earthwork	2,302	..	2,302	2,302	2,302
O. Miscellaneous	..	..	..	..	..
Total ..	5,359	..	5,359	5,359	5,359
(5) Special tools and plant— Provision for unforeseen works.	— 18,833	..	— 18,833	— 18,833	— 18,833
Total, Works ..	2,24,998	..	2,24,998	2,24,998	2,24,998
II. ESTABLISHMENT	43,411	..	43,411	43,411	43,411
III. TOOLS AND PLANT	60,075	..	60,075	60,075	60,075
Grand Total ..	3,28,484	..	3,28,484	3,28,484	3,28,484
V. <i>Loss</i> —RECEIPTS ON CAPITAL ACCOUNT.	703	..	703	703	703
Net Total ..	3,27,781	..	3,27,781	3,27,781	3,27,781
Chargeable to 43. Provincial Irrigation.	3,24,486	..	3,24,486	..	..
Chargeable to 55-A. Irrigation— 2. Unproductive.	3,295	..	3,295	..	..
Total ..	3,27,781	..	3,27,781	..	..

Koviloor Acadam
PANJAPATTI RESERVOIR—*Tank Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
5. Receipts from plantations	..	..	..	(1) Head works	798	735	1,533
6. Receipts from other canal produce.	270	107	377	(2) Main canals and branches	..	..	..
9. Rents of buildings	43	..	43	(3) Distributaries	..	..	..
11. Miscellaneous	104	4	108	(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
Total, Revenue realized in Public Works Department	417	111	528	Total ..	798	735	1,533
Irrigation revenue realized in Civil Department	7,373	11 7	7,490	II. MAINTENANCE AND REPAIRS—			
				(1) Head works	2,253	396	2,649
				(2) Main canals and branches	419	..	419
				(3) Distributaries	446	..	446
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	3,118	396	3,514
				Total, Extensions and Improvements and Maintenance and Repairs ..	3,916	1,131	5,047
				IV. ESTABLISHMENT	1,296	415	1,711
				V. TOOLS AND PLANT	6	11	17
				VI. REFUNDS OF REVENUE	..	..	..
Total, Direct Receipts ..	7,790	228	8,018	Total, Direct Charges ..	5,218	1,557	6,775
II. INDIRECT RECEIPTS—				Share of collection charges in the Civil Department	370	7	377
Share of land revenue collected in the Civil Department	3,623	595	4,218	Indirect charges	62	11	73
Total, Public Works and Civil Department, Revenue	11,413	823	12,236	Total, Direct and Indirect Charges ..	5,650	1,575	7,225
				Balance, Net revenue ..	5,763	— 752	5,011
Total, Receipts ..	11,413	823	12,236	Grand Total ..	11,413	823	12,236

Notes.—Proposal for the revision of water-rates should be submitted by the Board of Revenue in 1933-34 as per G.O. P. No. 1244 I., dated 15th April 1930. (Filed in group III—Orders on C.R. for the project.)

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

PANJAPATTI RESERVOIR—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,76,207	Net revenue realized to end of 1922-1930	5,763
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	— 752
Interest at 3·3252 per cent on the outlay to end of 1916-17	8,333	Balance, net interest charges ..	1,83,728
Interest at 5·44 per cent on the outlay of Rs. 77,192 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31	4,199		
	12,532		
Total ..	1,88,739	Total ..	1,88,739

No. 5.—Accounts of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	5,396	..	5,396
Leave and pension allowances	6,077	..	6,077
Audit and accounts	22	..	22
Total ..	11,495	..	11,495
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	23	..	23
Audit and accounts	39	11	50
Total ..	62	11	73
Grand Total ..	11,557	11	11,568

PANJAPATTI RESERVOIR—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.		RS.				RS.		
Works	2,24,998	..	2,24,998	..	..	..	2,24,998		
Establishment	43,411	..	43,411	..	..	..	43,411		
Tools and plant	60,075	..	60,075	..	..	..	60,075		
Suspense account	..	..	..	..	..	..	..		
Total ..	3,28,484	..	3,28,484	..	..	..	3,28,484		
<i>Less</i> —Receipts on Capital Account	703	..	703	..	..	..	703		
Net Total ..	3,27,781	..	3,27,781	..	..	..	3,27,781		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	5,396	..	5,396	..	..	..	5,396		
Leave and pension allowances	6,077	..	6,077	..	..	..	6,077		
Audit and accounts	22	..	22	..	..	..	22		
Total ..	11,495	..	11,495	..	..	..	11,495		
Grand Total ..	3,39,276	..	3,39,276	..	..	..	3,39,276		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

SIDDAPUR TANK—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st October 1919).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works</i> —					
A. Preliminary expenses (old outlay).*	6,463	..	6,463	6,463	6,463
C. Works	24,847	..	24,847	24,847	24,847
K. Buildings	2,393	..	2,393	2,393	2,393
L. Earthwork	5,24,277	..	5,24,277	5,24,277	5,24,277
O. Miscellaneous	14	..	14	14	14
P. Maintenance	2,775	..	2,775	2,775	2,775
Total	5,60,769	..	5,60,769	5,60,769	5,60,769
(2) <i>Main Canals and Branches</i> —					
B. Land	..	..	..	..	..
D. Regulators	..	..	..	..	..
E. Falls and weirs	11,950	..	11,950	11,950	11,950
L. Earthwork	6,014	..	6,014	6,014	6,014
O. Miscellaneous	..	..	..	..	..
Total ..	17,964	..	17,964	17,964	17,964
(3) <i>Distributaries</i> —					
B. Land	1,052	..	1,052	1,052	1,052
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total ..	1,052	..	1,052	1,052	1,052
(5) <i>Special tools and plant</i> ..	— 57,034	..	— 57,034	— 57,034	— 57,034
Provision for unforeseen works.	..	..	..	..	..
Total Works ..	5,22,751	..	5,22,751	5,22,751	5,22,751
II. ESTABLISHMENT	96,255	..	96,255	96,255	96,255
III. TOOLS AND PLANT	1,72,474	..	1,72,474	1,72,474	1,72,474
Total ..	7,91,480	..	7,91,480	7,91,480	7,91,480
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	442	..	442	442	442
Net Total ..	7,91,038	..	7,91,038	7,91,038	7,91,038
Chargeable to 35. Protective Irrigation Works.	5,000	..	5,000	..	..
Chargeable to 43. Minor Works and Navigation—Provincial.	7,91,775	..	7,91,775	..	..
Chargeable to 55-A. Irrigation Works—2. Unproductive.	— 5,737	..	— 5,737	..	..
Total ..	7,91,038	..	7,91,038	..	..

* Represents expenditure incurred on preliminary investigation, etc.

SIDDAPUR TANK—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	..	..	..	(1) Head works	..	..	..
6. Receipts from other canal produce ..	..	..	..	(2) Main canals and branches	233	..	233
11. Miscellaneous ..	..	..	..	(3) Distributaries	120	..	120
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	353	..	353
Total, Revenue realized in Public Works Department ..	..	..	..	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department ..	14,939	186	15,125	(1) Head works	8,653	660	9,313
				(2) Main canals and branches	1,108	..	1,108
Total, Direct Receipts ..	14,939	186	15,125	(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
II. INDIRECT RECEIPTS—				(5) Special tools and plant	..	..	..
Share of Land Revenue collected in the Civil Department ..	..	..	..	Total ..	9,761	660	10,421
				Total, Extensions and Improvements and Maintenance and Repairs	10,114	660	10,774
Total, Public Works and Civil Departments, Revenue ..	14,939	186	15,125	IV. ESTABLISHMENT	4,320	176	4,496
Net deficit, if any ..	871	668	1,539	V. TOOLS AND PLANT	75	2	77
				VI. REFUNDS OF REVENUE	..	..	..
Total ..	15,810	854	16,664	Total, Direct Charges ..	14,509	838	15,347
				Share of collection charges in the Civil Department	748	9	757
				Indirect Charges	553	7	560
				Total, Direct and Indirect Charges ..	15,810	854	16,664
				Balance, net revenue	..	..	..
				Grand Total ..	15,810	854	16,664

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

SIDDAPUR TANK—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	4,45,052	Net revenue realized to end of 1929-1930.	— 871
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931.	— 668
Interest at 3·3252 per cent on the outlay to end of 1916-1917 ..	26,167	Balance, net interest charges ..	4,72,982
Interest at 5·44 per cent on the outlay of Rs. 4,119 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 ..	224		
Total ..	4,71,443	Total ..	4,71,443

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	..	..	..
Leave and pension allowances	13,475	..	13,475
Audit and accounts	— 27	..	— 27
Total ..	13,448	..	13,448
REVENUE—			
Capitalization of abatement of land revenue ..	..	..	..
Leave and pension allowances	466	..	466
Audit and accounts	87	7	94
Total ..	553	7	560
Grand Total ..	14,001	7	14,008

SIDDAPUR TANK—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanction.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	5,35,737	— 12,986	5,22,751	..	..	..	5,22,751		
Establishment	1,06,156	— 9,901	96,255	..	..	..	96,255		
Tools and plant	1,72,598	— 124	1,72,474	..	..	..	1,72,474		
Suspense account	..	..	..	..	..	..	..		
Total ..	8,14,491	— 23,011	7,91,480	..	..	..	7,91,480		
Less—Receipts on capital account ..	295	147	442	..	..	..	442		
Net Total ..	8,14,196	— 23,158	7,91,038	..	..	..	7,91,038		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	..	..	..	..	..	..	..		
Leave and pension allowances	14,861	— 1,386	13,475	..	..	..	13,475		
Audit and accounts	..	— 27	— 27	..	..	..	— 27		
Total ..	14,861	— 1,413	13,448	..	..	..	13,448		
Grand Total ..	8,29,057	— 24,571	8,04,486	..	..	..	8,04,486		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 31st December 1919).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(1) <i>Head Works—</i>					
B. Land	..	..	..	..	..
C. Works	67,683	..	67,683	67,683	67,683
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	67,683	..	67,683	67,683	67,683
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses.	..	..	..	..	..
B. Land	445	..	445	445	445
E. Falls and weirs	..	..	..	..	..
F. (1) Other cross drainage works.	13,217	..	13,217	13,217	13,217
G. Bridges	1,262	..	1,262	1,262	1,262
K. Buildings	1,983	..	1,983	1,983	1,983
L. Earthwork	4,167	..	4,167	4,167	4,167
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	21,074	..	21,074	21,074	21,074
(3) <i>Distributaries—</i>					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	88,757	..	88,757	88,757	88,757
II. ESTABLISHMENT	18,538	..	18,538	18,538	18,538
III. TOOLS AND PLANT	..	..	..	..	..
* Grand Total ..	1,07,295	..	1,07,295	1,07,295	1,07,295

* Chargeable to '43. Minor Works and Navigation—Provincial.'

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.

No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
6 Receipts from other canal produce	..	..	..	(1) Head works	..	..	..
9. Rents of buildings	..	..	..	(2) Main canals and branches	..	..	..
11. Miscellaneous	..	..	..	(3) Distributaries	..	..	..
Total, Revenue realized in Public Works Department ..	..	..	..	(4) Drainage and protective works	..	..	..
Irrigation Revenue realized in Civil Department	14,798	1,781	16,579	(5) Special tools and plant	..	..	..
Total, Direct Receipts	14,798	1,781	16,579	Total	..	..	..
II. INDIRECT RECEIPTS—				II. MAINTENANCE AND REPAIRS—			
Share of Land Revenue collected in the Civil Department ..	..	146	146	(1) Head works	..	..	..
Total, Public Works and Civil Departments, Revenue ..	14,798	1,927	16,725	(2) Main canals and branches	..	..	..
Total, Receipts ..	14,798	1,927	16,725	(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Add—Unclassifiable outlay	..	..	..
				Total	..	..	..
				Total, Extensions and Improvements and Maintenance and Repairs ..	69	(a) 21	(a) 90
				IV. ESTABLISHMENT	..	..	..
				V. TOOLS AND PLANT	..	..	..
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges	69	21	90
				Share of collection charges in the Civil Department	739	96	835
				Indirect Charges	..	..	..
				Total, Direct and Indirect Charges ..	808	117	925
				Balance, net revenue	13,990	1,810	15,800
				Grand Total ..	14,798	1,927	16,725

(a) Water Regulation establishment.

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	60,330	Net revenue realized to end of 1929-1930	13,990
Total interest charges for the year 1930-1931	3,568	Net revenue realized during 1930-1931	1,810
		Balance, net interest charges ..	48,098
Total ..	63,898	Total ..	63,898

* Interest at 3.3252 per cent on the outlay to end of 1916-1917	RS. 3,568
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	..
Total ..	3,568

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.		RS.
CAPITAL—			
Capitalization of abatement of land revenue.	..	..	..
Leave and pension allowances	2,595	..	2,595
Total ..	2,595	..	2,595

NAGAVARAM ANICUT AND SUPPLY CHANNEL—*Tank Project*—cont.
No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.		RS.				RS.		
Works	88,757	..	88,757	..	..	..	88,757		
Establishment	18,538	..	18,538	..	..	..	18,538		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,07,295	..	1,07,295	..	..	..	1,07,295		
Less—Receipts on Capital Account ..	..	..	..	..	..	..	..		
Net Total ..	1,07,295	..	1,07,295	..	..	..	1,07,295		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue ..	..	..	..	..	..	..	..		
Leave and pension allowances	2,595	..	2,595	..	..	..	2,595		
Total) ..	2,595	..	2,595	..	..	..	2,595		
Grand Total ..	1,09,890	..	1,09,890	..	..	..	1,09,890		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MOPAD PROJECT—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed on 30th April 1921).	Expenditure against closed estimate
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS—					
(1) <i>Head works—</i>					
A. Preliminary expenses ..	13,548	..	13,548	13,548	13,548
B. Land	83,112	..	83,112	83,112	83,112
C. Works	44,035	..	44,035	44,035	44,035
K. Buildings	21,808	..	21,808	21,808	21,808
L. Earthwork	11,95,416	..	11,95,416	11,95,416	11,95,416
N. Tanks and reservoirs ..	..	..	..	..	..
O. Miscellaneous	15,216	..	15,216	15,216	15,216
P. Maintenance	23,618	..	23,618	23,618	23,618
Unforeseen works	..	..	..	..	..
Total ..	13,96,753	..	13,96,753	13,96,753	13,96,753
(2) <i>Main Canals and Branches—</i>					
A. Preliminary expenses ..	1,938	..	1,938	1,938	1,938
B. Land	12,812	..	12,812	12,812	12,812
D. Regulators	15,777	..	15,777	15,777	15,777
E. Falls and weirs	21,158	..	21,158	21,158	21,158
F. (1) Other cross drainage works.	1,44,666	..	1,44,666	1,44,666	1,44,666
G. Bridges	13,753	..	13,753	13,753	13,753
K. Buildings	2,988	..	2,988	2,988	2,988
L. Earthwork	91,757	..	91,757	91,757	91,757
O. Miscellaneous	5,221	..	5,221	5,221	5,221
P. Maintenance	4,731	..	4,731	4,731	4,731
Unforeseen works	..	..	..	..	..
Total ..	3,14,801	..	3,14,801	3,14,801	3,14,801
(3) <i>Distributaries—</i>					
A. Preliminary expenses ..	2,389	..	2,389	2,389	2,389
B. Land	5,056	..	5,056	5,056	5,056
C. Works	6,118	..	6,118	6,118	6,118
G. Bridges	287	..	287	287	287
L. Earthwork	9,989	..	9,989	9,989	9,989
O. Miscellaneous	2,702	..	2,702	2,702	2,702
Total ..	26,541	..	26,541	26,541	26,541
(5) <i>Special tools and plant—</i>					
Provision for unforeseen works.	— 71,520	..	— 71,520	— 71,520	— 71,520
Total, Works ..	16,66,575	..	16,66,575	16,66,575	16,66,575
II. ESTABLISHMENT	3,20,381	..	3,20,381	3,20,381	3,20,381
III. TOOLS AND PLANT	2,34,213	..	2,34,213	2,34,213	2,34,213
Grand Total ..	22,21,169	..	22,21,169	22,21,169	22,21,169
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	27,894	..	27,894	27,894	27,894
(a) Net Total ..	21,93,275	..	21,93,275	21,93,275	21,93,275
Chargeable to 35. Protective Works— Irrigation.	22,09,835	..	22,09,835	..	..
Chargeable to 55. Irrigation Works— Unproductive.	— 16,560	..	— 16,560	..	..
Total ..	21,93,275	..	21,93,275	..	..

MOPAD PROJECT—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930-1931

Receipts.	Total.			Charges.	Total.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
I. DIRECT RECEIPTS—	RS.	RS.	RS.	I. EXTENSIONS AND IMPROVEMENTS—	RS.	RS.	RS.
3. Sales of water	68	..	68	(1) Head works	465	..	465
6. Receipts from other canal produce ..	75	35	110	(2) Main canals and branches ..	26,564	59	26,623
9. Rent of buildings	961	126	1,087	(3) Distributaries	141	503	644
11. Miscellaneous	2,867	94	2,961	(4) Drainage and protective works ..	..	..	..
Recoveries of expenditure	..	127	127	(5) Special tools and plant	..	..	..
Deduct—Refunds	10	126	136	Total ..	27,170	562	27,732
Total, Revenue realized in the Public Works Department.	3,961	256	4,217	II. MAINTENANCE AND REPAIRS—			
Irrigation Revenue realized in Civil Department.	2,07,521	37,475	2,44,996	(1) Head works	15,461	1,540	17,001
Total, Direct Receipts ..	2,11,482	37,731	2,49,213	(2) Main canals and branches ..	30,674	5,897	36,571
II. Indirect Receipts—Share of Land Revenue collected in the Civil Department.	35,513	5,137	40,650	(3) Distributaries	14,353	2,600	16,953
Total, Public Works and Civil Departments, Revenue.	2,46,995	42,868	2,89,863	(4) Drainage and protective works ..	..	..	..
Total, Receipts ..	2,46,995	42,868	2,89,863	(5) Special tools and plant	..	..	..
				Total ..	60,488	10,037	70,525
				Total, Extensions and Improvements and Maintenance and Repairs.	87,658	10,599	98,257
				IV. ESTABLISHMENT	26,980	3,860	30,820
				V. TOOLS AND PLANT	623	102	725
				VI. RECOVERIES ON REVENUE ACCOUNT.	16	..	16
				Total, Direct Charges ..	1,15,225	14,561	1,29,786
				Share of collection charges in the Civil Department. .	10,376	1,906	12,282
				Indirect charges	2,003	106	2,109
				Total, Direct and Indirect Charges ..	1,27,604	16,573	1,44,177
				Balance, net revenue ..	1,19,391	26,295	1,45,686
				Grand Total ..	2,46,995	42,868	2,89,863

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

MOPAD PROJECT—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	13,31,452	Net revenue realized to end of 1929-1930	1,19,391
Total interest charges for the year 1930-1931	84,468	Net revenue realized during 1930-1931	26,295
		Balance, net interest charges ..	12,70,234
Total ..	14,15,920	Total ..	14,15,920

Interest at 3.3252 per cent on the outlay to end of 1916-1917	RS.	54,791
Interest at 5.44 per cent on the outlay of Rs. 5,45,538 from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931		29,677
Total ..		84,468

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	51,698	..	51,698
Leave and pension allowances	44,856	..	44,856
Audit and accounts	— 132	..	— 132
Total ..	96,422	..	96,422
REVENUE—			
Capitalization of abatement of land revenue.	..	..	..
Leave and pension allowances	1,126	..	1,126
Audit and accounts	877	106	983
Total ..	2,003	106	2,109
Grand Total ..	98,425	106	98,531

MOPAD PROJECT—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct charges.</i>	RS.		RS.				RS.		
Works	16,66,575	..	16,66,575	..	..	..	16,66,575		
Establishment	3,20,381	..	3,20,381	..	..	..	3,20,381		
Tools and plant	2,34,213	..	2,34,213	..	..	..	2,34,213		
Suspense account	..	..	..	..	..	..	..		
Total ..	22,21,169	..	22,21,169	..	..	..	22,21,169		
Less—Receipts on Capital account ..	27,894	..	27,894	..	..	..	27,894		
Net Total ..	21,93,275	..	21,93,275	..	..	..	21,93,275		
<i>Indirect charges.</i>									
Capitalized abatement of land revenue.	51,698	..	51,698	..	..	..	51,698		
Leave and pension allowances ..	44,856	..	44,856	..	..	..	44,856		
Audit and accounts	— 132	..	— 132	..	..	..	— 132		
Total ..	96,422	..	96,422	..	..	..	96,422		
Grand Total ..	22,89,697	..	22,89,697	..	..	..	22,89,697		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KANIYAMPALAYAM ANICUT—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Construc- tion estimate closed on 31st March 1922.	Expendi- ture against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.	RS.	RS.	RS.	RS.
I. WORKS—					
(1) <i>Head Works</i> —					
A. Preliminary expenses ..	1,762	..	1,762	1,762	1,762
B. Land	..	..	..	..	..
C. Works	73,244	..	73,244	73,244	73,244
K. Buildings	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total ..	75,006	..	75,006	75,006	75,006
(2) <i>Main Canals and Branches</i> —					
A. Preliminary expenses ..	..	..	..	..	..
B. Land	..	..	..	..	..
C. Works	1,144	..	1,144	1,144	1,144
D. Regulators	..	..	..	..	..
E. Rivers and bill torrents ..	..	..	..	..	..
F. (1) Other cross drainage works ..	11,776	..	11,776	11,776	11,776
G. Bridges	..	..	..	..	..
K. Buildings	1,000	..	1,000	1,000	1,000
L. Earthwork	8,465	..	8,465	8,465	8,465
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	22,385	..	22,385	22,385	22,385
(3) <i>Distributaries</i> —					
B. Land	..	..	..	..	..
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
P. Maintenance	..	..	..	..	..
Total ..	..	..	..	..	..
(5) Special tools and plant ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, Works ..	97,391	..	97,391	97,391	97,391
II. ESTABLISHMENT	27,035	..	27,035	27,035	27,035
III. TOOLS AND PLANT	495	..	495	495	495
Grand Total ..	1,24,921	..	1,24,921	1,24,921	1,24,921
V. <i>Less</i> Receipts on Capital account.	3,540	3,540	7,080	7,080	7,080
Net Total ..	1,21,381	— 3,540	1,17,841	1,17,841	1,17,841
Chargeable to “43. Irrigation—Pro- vincial.”	1,15,679	..	1,15,679	..	..
Chargeable to “55-A. Irrigation Works—2. Unproductive.”	5,702	— 3,540	2,162	..	..
Total ..	1,21,381	— 3,540	1,17,841	..	..

KANIYAMPALAYAM ANICUT—Tank Project—cont.
No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous	1930–1931.	Total.		Previous.	1930–1931.	Total.
I. DIRECT RECEIPTS—	Rs.	Rs.	Rs.	I. EXTENSIONS AND IMPROVEMENTS—	Rs.	Rs.	Rs.
1. Water-rates ..	24,000	4,000	28,000	(1) Head works	248	..	248
6. Receipts from other canal produce ..	..	..	..	(2) Main canals and branches	..	..	..
9. Rent of buildings. ..	..	..	..	(3) Distributaries	..	..	..
11. Miscellaneous ..	3	..	3	(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
Total, Revenue realized in the Public Works Department ..	24,003	4,000	28,003	Total ..	248	..	248
Irrigation Revenue realized in Civil Department ..	..	..	..	II. MAINTENANCE AND REPAIRS—			
Total, Direct receipts ..	24,003	4,000	28,003	(1) Head works	20,206	4,995	25,201
				(2) Main canals and branches	..	..	..
II. Indirect receipts—Share of Land Revenue collected in the Civil Department ..	..	..	..	(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
Total, Public Works and Civil Departments, Revenue ..	24,003	4,000	28,003	(5) Special tools and plant	..	..	..
Net deficit, if any ..	3,611	2,344	5,955	Add—Unclassifiable outlay ..	..	..	..
Total ..	27,614	6,344	33,958	Total ..	20,206	4,995	25,201
				Total, Extensions and Improvements and Maintenance and Repairs ..	20,454	4,995	25,449
				IV. ESTABLISHMENT	6,101	1,173	7,274
				V. TOOLS AND PLANT	278	126	404
				VI. REFUNDS AND REVENUE	..	..	..
				Total, Direct charges ..	26,833	6,294	33,127
				Share of collection charges in the Civil Department ..	..	..	..
				Indirect charges	781	50	831
				Total, Direct and Indirect charges ..	27,614	6,344	33,958
				Balance, Net revenue ..	..	..	..
				Grand Total ..	27,614	6,344	33,958

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

KANIYAMPALAYAM ANICUT—*Tank Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930.	69,794	Net revenue realized to end of 1929-1930.	— 3,611
Total interest charges for the year 1930-1931.	5,906	Net revenue realized during 1930-1931.	-- 2,344
		Balance, net interest charges ..	81,655
Total ..	75,700	Total ..	75,700
Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	945		
Interest at 5.44 per cent on the outlay of Rs. 91,202 from 1917-1918 to end of 1928-1930 plus $\frac{1}{2}$ outlay during 1930-31 ..	4,961		
Total ..	5,906		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	..	..	..
Leave and pension allowances	3,787	..	3,787
Audit and accounts	66	..	66
Total ..	3,853	..	3,853
REVENUE—			
Capitalization of abatement of land revenue.	..	..	..
Leave and pension allowances	576	..	576
Audit and accounts	205	50	255
Total ..	781	50	831
Grand Total ..	4,634	50	4,684

KANIYAMPALAYAM ANICUT—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		RS.
Works	92,266	5,125	97,391	..	..	..	97,391		
Establishment	25,172	1,863	27,035	..	..	..	27,035		
Tools and plant	453	42	495	..	..	..	495		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,17,891	7,030	1,24,921	..	..	..	1,24,921		
<i>Less—</i> Receipts on capital account	..	7,080	7,080	..	..	..	7,080		
Net Total ..	1,17,891	— 50	1,17,841	..	..	..	1,17,841		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue	..	..	..	..	..	..	..		
Leave and pension allowances	3,525	262	3,787	..	..	..	3,787		
Audit and accounts	15	51	66	..	..	..	66		
Total ..	3,540	313	3,853	..	..	..	3,853		
Grand Total ..	1,21,431	263	1,21,694	..	..	..	1,21,694		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

TIPPAYAPALEM PROJECT—*Tank Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. Works—	RS.	RS.	RS.	RS.	
(1) <i>Head Works—</i>					
B. Land	28,937	..	28,937	11,550	..
C. Works	791	144	647	66,600	..
K. Buildings	463	..	463	5,000	..
L. Earthwork	18,454	288	18,742	1,03,400	..
O. Miscellaneous	4,648	..	4,648	18,810	..
Total ..	53,293	144	53,437	2,05,360	..
(2) <i>Main Canals and Branches—</i>					
L. Earthwork	..	..	..	19,200	..
O. Miscellaneous	..	..	..	1,440	..
Total ..	..	..	..	20,640	..
(3) <i>Distributaries—</i>					
C. Works	..	..	..	..	..
L. Earthwork	..	..	..	..	..
O. Miscellaneous	..	..	..	..	..
Total ..	..	..	..	..	..
(5) Special tools and plant ..	..	..	..	..	..
Total, Works ..	53,293	144	53,437	2,26,000	..
II. ESTABLISHMENT	16,701	27	16,728	56,500	..
III. TOOLS AND PLANT	295	1	296	4,520	..
Grand Total ..	70,289	172	70,461	2,87,020	..
V. <i>Less—RECEIPTS ON CAPITAL ACCOUNT.</i>	447	209	656	..	..
Net Total ..	69,842	— 37	69,805	2,87,020	..
Chargeable to “55-A. Irrigation Works—Unproductive.”	69,842	— 37	69,805	..	..

IRRIGATION BRANCH.

PUBLIC WORKS DEPARTMENT.

TIPPAYAPALEM PROJECT—*Tank Project*—cont.

No. 4.—Interest Accounts for and to end of 1930–1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929–1930	18,521	Net revenue realized to end of 1929–1930	..
Total interest charges for the year 1930–1931—		Net revenue realized during 1930–1931	..
Interest at 5.44 per cent on the outlay of Rs. 69,824 from 1924–1925 to end of 1929–1930 plus half the outlay during 1930–1931 as the first outlay was in 1924–1925	3,798	Balance net interest charges ..	22,319
Total ..	22,319	Total ..	22,319

No. 5.—Account of Indirect Charges for and to end of 1930–1931.

Particulars.	Previous.	1930–1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue	4,600	..	4,600
Leave and pension allowances	2,688	..	2,688
Audit and accounts	534	2	536
Total ..	7,822	2	7,824
REVENUE—			
Capitalization of abatement of land revenue	..	..	..
Leave and pension allowances	..	..	..
Audit and accounts	..	..	..
Total ..	..	..	..
Grand Total ..	7,822	2	7,824

TIPPAYAPALEM PROJECT—*Tank Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

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Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanctions.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>				RS.	RS.	RS.		<i>Direct Charges.</i>	RS.
Works	..	..	..	53,437	2,26,000	1,72,563	..	Mis. 33 I., dated 4th February 1924.	2,26,000
Establishment	..	..	..	16,728	56,500	39,772	..	<i>Indirect Charges.</i>	32,170
Tools and plant	..	..	..	296	4,520	4,224	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	..	..	..	70,461	2,87,020	2,16,559	..	Mis. 83 I., dated 4th February 1924.	
Less—Receipts on Capital Account ..	..	..	..	656	..	— 656	..		
Net Total ..	..	..	..	69,805	2,87,020	2,17,215	..		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	..	..	..	4,600	22,000	17,400	..		
Leave and pension allowances	..	..	..	2,686	7,910	5,222	..		
Audit and accounts	..	..	..	536	2,260	1,724	..		
Total ..	..	..	..	7,824	32,170	24,346	..		
Grand Total ..	..	..	..	77,629	3,19,190	2,41,561	..		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

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MADRAS PRESIDENCY.

BASAVANNAH CHANNEL.

No. 2.—Capital Account for and to end of 1930–1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated.	Expenditure against closed estimate.
	Previous.	1930–1931.	Total.		
I. Works—	RS.	RS.	RS.	RS.	
(1) <i>Head Works—</i>					
C. Works	13,885	— 986	12,899	16,050	..
Total ..	13,885	— 986	12,899	16,050	..
(2) <i>Main Canals and Branches—</i>					
B. Land	20,016	294	20,310	20,000	..
C. Works	53,048	36,611	95,659	92,300	..
L. Earthwork	2,18,921	51,740	2,70,661	2,76,800	..
O. Miscellaneous	17,680	— 14,423	3,257	6,710	..
Total ..	3,15,665	74,222	3,89,887	3,95,810	..
Total, Works ..	3,29,550	73,236	4,02,786	4,11,860	..
II. ESTABLISHMENT	83,672	13,934	97,606	1,24,836	..
III. TOOLS AND PLANT	1,818	272	2,097	8,053	..
Grand Total ..	4,15,040	87,449	5,02,489	5,44,749	..
V. <i>Less—</i> RECEIPTS ON CAPITAL ACCOUNT	..	..	..	..	..
Net Total ..	4,15,040	87,449	5,02,489	5,44,749	..
Chargeable to 55-A. Irrigation Works—Productive	2,06,225	..	2,06,225	..	..
Chargeable to 55-A. Irrigation Works—Unproductive	2,08,815	87,449	2,96,264	..	..
Chargeable to 55-A Irrigation.	4,15,040	87,449	5,02,489	..	..

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ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BASAVANNAH CHANNEL—*cont.*

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	45,531	Net revenue realized to end of 1929-1930	..
Total interest charges for the year 1930-1931	24,957	Net revenue realized during 1930-1931	..
		Balance, net interest charges ..	70,488
Total ..	70,488	Total ..	70,488
Interest at 5.44 per cent on the outlay of Rs. 4,58,764 from 1925-1926 to end of 1929-1930 plus half the outlay during 1930-1931 as the first outlay was in 1925-1926	24,957		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of Land Revenue.	1,221	..	1,221
Leave and pension allowances	661	..	661
Audit and accounts	3,296	732	4,028
Total ..	5,178	732	5,910
Revenue—			
Leave and pension allowances	..	..	..
Audit and accounts	..	..	..
Total ..	..	..	..
Grand Total ..	5,178	732	5,910

BASAVANNAH CHANNEL—*cont.*

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
1	2	3	4	5	6	7	8	9	10
<i>Direct Charges.</i>				RS.	RS.	RS.			RS.
Works	..	..	..	4,02,786	4,11,860	9,074	..	Public Works and Labour Memo- randum No. 16766/ 28-3, 18th October 1928.	4,11,860
Establishment	..	..	..	97,606	1,24,836	27,230	..		
Tools and plant	..	..	..	2,097	8,053	5,956	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	..	..	..	5,02,489	5,44,749	42,260	..		
Less—Receipts on Capital Account ..	..	..	..	..	..	..	..		
Net Total ..	..	..	..	5,02,489	5,44,749	42,260	..		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue ..	..	..	..	1,221	800	421	..	Public Works and Labour Memo- No. 16766/ 28-3, 18th October 1928.	5,580
Leave and pension allowances ..	..	..	..	661	661	..	..		
Audit and accounts	..	..	..	4,028	4,119	91	..		
Total ..	..	..	..	5,910	5,580	330	..		
Grand Total ..	..	..	..	5,08,399	5,50,329	41,930	..		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

GANJAM-GOPALPUR CANAL--*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (closed in 1893).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
	RS.		RS.	RS.	RS.
I. WORKS--					
2. Main Canals and Branches--					
A. Preliminary Expenses.	623	..	623	623	623
B. Land	632	..	632	632	632
L. Earthwork	94,093	..	94,093	94,093	94,093
O. Miscellaneous	7,327	..	7,327	7,327	7,327
Total ..	1,02,675	..	1,02,675	1,02,675	1,02,675
5. Special tools and plant ..	..	..	..	..	..
Total, Works ..	1,02,675	..	1,02,675	1,02,675	1,02,675
II. ESTABLISHMENT	37,799	..	37,799	37,799	37,799
III. TOOLS AND PLANT	2,733	..	2,733	2,733	2,733
Grand Total ..	1,43,207	..	1,43,207	1,43,207	1,43,207
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	107	..	107	107	107
(a) Net Total ..	1,43,100	..	1,43,100	1,43,100	1,43,100

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

GANJAM-GOPALPUR CANAL—Canal Project—cont.

No. 3.—Revenue Account for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
5. Receipts from plantations ..	11,008	7,075	18,083	(1) Head works	..	..	..
6. Receipts from other canal produce ..	316	13	329	(2) Main canals and branches	555	..	555
11. Miscellaneous ..	489	..	489	(3) Distributaries	..	..	..
Refunds ..	55	..	55	(4) Drainage and protective works	..	..	..
Total revenue realized in the Public Works Department ..	11,758	7,088	18,846	(5) Special tools and plant	..	..	..
Total, Public Works and Civil Departments, Revenue ..	11,758	7,088	18,846	Total ..	555	..	555
				II. MAINTENANCE AND REPAIRS—			
				(1) Head works	..	..	..
				(2) Main canals and branches	6,943	120	7,063
				(3) Distributaries	..	..	..
				(4) Drainage and protective works	..	..	..
				(5) Special tools and plant	..	..	..
				Total ..	6,943	120	7,063
				Total, Extensions and Improvements and Maintenance and Repairs ..	7,498	120	7,618
				IV. ESTABLISHMENT	2,281	31	2,312
				V. TOOLS AND PLANT	68	2	70
				VI. REFUNDS OF REVENUE	..	..	..
				Total, Direct Charges ..	9,847	153	10,000
				Share of collection charges in the Civil Department ..	..	..	..
				Indirect Charges	605	1	606
				Total, Direct and Indirect Charges ..	10,452	154	10,606
				Balance, net revenue ..	1,306	6,934	8,240
Total, Receipts ..	11,758	7,088	18,846	Grand Total ..	11,758	7,088	18,846

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

GANJAM-GOPALPUR CANAL—*Canal Project*—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	2,18,552	Net revenue realized to end of 1929-1930	1,306
Total interest charges for the year 1930-1931	4,758	Net revenue realized during 1930-1931	6,934
		Balance, net interest charges	2,15,070
Total ..	2,23,310	Total ..	2,23,310
Interest at 3.3252 per cent on the outlay to end of 1916-1917	4,758		
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931	..		
Total ..	4,758		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue.	7,100	..	7,100
Leave and pension allowances	5,293	..	5,293
Audit and accounts	..	..	..
Total ..	12,393	..	12,393
REVENUE—			
Capitalization of abatement of land revenue.	303	..	303
Leave and pension allowances	275	..	275
Audit and accounts	27	1	28
Total ..	605	1	606
Grand Total ..	12,998	1	12,999

GANJAM-GOPALPUR CANAL—Canal Project—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	Remarks.
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		
<i>Direct Charges.</i>	RS.		RS.				RS.	
Works	1,02,675	..	1,02,675	..	..	..	1,02,675	
Establishment	37,799	..	37,799	..	..	..	37,799	
Tools and plant	2,733	..	2,733	..	..	..	2,733	
Total ..	1,43,207	..	1,43,207	..	..	..	1,43,207	
<i>Less—Receipts on Capital Account ..</i>	107	..	107	..	..	..	107	
Net Total ..	1,43,100	..	1,43,100	..	..	..	1,43,100	
<i>Indirect Charges.</i>								
Capitalized abatement of land revenue	7,100	..	7,100	..	..	..	7,100	
Leave and pension allowances ..	5,293	..	5,293	..	..	..	5,293	
Total ..	12,393	..	12,393	..	..	..	12,393	
Grand Total ..	1,55,493	..	1,55,493	..	..	..	1,55,493	

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

VEDARANNIYAM CANAL.—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated closed in 1893.	Expenditure against closed estimate.
	Previous.	1930-31.	Total.		
I. WORKS—	RS.		RS.	RS.	RS.
(2) <i>Main Canals and Branches—</i>					
Unclassifiable outlay	1,07,885	..	1,07,885	1,07,885	1,07,885
Total	1,07,885	..	1,07,885	1,07,885	1,07,885
Total, Works	1,07,885	..	1,07,885	1,07,885	1,07,885
II. ESTABLISHMENT	24,814	..	24,814	24,814	24,814
(a) Grand Total	1,32,699	..	1,32,699	1,32,699	1,32,699

(a) Chargeable to "43. Minor Works and Navigation—Provincial."

VEDARANNIYAM CANAL—Canal Project—cont.
No. 3.—Revenue Accounts for and to end of 1930–1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930–1931.	Total.		Previous.	1930–1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I. EXTENSIONS AND IMPROVEMENTS—			
				(1) Head works	..	..	..
5. Receipts from plantations	149	..	149	(2) Main canals and branches ..	3,516	..	3,516
6. Receipts from other canal produce ..	677	..	677	(3) Distributaries	479	..	479
8. Navigation receipts	43,042	1,001	44,043	(4) Drainage and protective works ..	638	..	638
9. Rents of buildings	43	..	43	(5) Special tools and plant ..	— 114	..	— 114
10. Fines	145	..	145				
11. Miscellaneous	468	..	468				
Deduct—Refunds	348	..	348				
				Total ..	4,519	..	4,519
Total revenue realized in the Public Works Department	44,176	1,001	45,177	II. MAINTENANCE AND REPAIRS—			
Total, Direct receipts	44,176	1,001	45,177	(1) Head works	2,28,319	1,068	2,29,387
Total, Public Works and Civil Departments, Revenue	44,176	1,001	45,177	(2) Main canals and branches ..	..	28	28
				(3) Distributaries	3,591	..	3,591
				(4) Drainage and protective works ..	53	..	53
				(5) Special tools and plant ..	..	..	..
				Total ..	2,31,963	1,096	2,33,059
				Total, Extensions and Improvements and Maintenance and Repairs ..	2,36,482	1,096	2,37,578
				IV. ESTABLISHMENT	61,126	358	61,484
				V. TOOLS AND PLANT	7,975	6	7,981
				VI. REFUNDS OF REVENUE	41	..	41
				Total, Direct Charges ..	3,05,624	1,460	3,07,084
				Share of collection charges in the Civil department	..	..	..
				Indirect charges	8,803	11	8,814
				Total, Direct and Indirect Charges ..	3,14,427	1,471	3,15,898
Net deficit, if any	2,70,251	470	2,70,721	Balance, net revenue	..	..	..
Total ..	3,14,427	1,471	3,15,898	Grand Total ..	3,14,427	1,471	3,15,898

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

VEDARANNIYAM CANAL—Canal Project—cont.

No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	3,13,457	Net revenue realized to end of 1929-1930	—2,70,251
Total interest charges for the year 1930-1931	4,412	Net revenue realized during 1930-1931	— 470
		Balance, net interest charges ..	5,88,590
Total ..	3,17,869	Total ..	3,17,869
Interest at 3.3252 per cent on the outlay to end of 1916-1917 ..	4,412		
Interest at 5.44 per cent on the outlay of Rs. nil from 1917-1918 to end of 1929-1930 plus half the outlay during 1930-1931 ..	..		
Total ..	4,412		

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
CAPITAL—			
Capitalization of abatement of land revenue ..	259	..	259
Leave and pension allowances	3,474	..	3,474
Audit and accounts	..	..	..
Total ..	3,733	..	3,733
REVENUE—			
Capitalization of abatement of land revenue ..	655	..	655
Leave and pension allowances	7,623	..	7,623
Audit and accounts	525	11	536
Total ..	8,803	11	8,814
Grand Total ..	12,536	11	12,547

VEDARANNIYAM CANAL—*Canal Project*—cont.

No. 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.				RS.		
Works	1,07,885	..	1,07,885	..	..	..	1,07,885		
Establishment	24,814	..	24,814	..	..	..	24,814		
Tools and plant	..	..	..	..	..	..	..		
Suspense account	..	..	..	..	..	..	..		
Total ..	1,32,699	..	1,32,699	..	..	..	1,32,699		
<i>Less—Receipts on Capital Account.</i>	..	..	..	..	..	..	..		
Net Total ..	1,32,699	..	1,32,699	..	..	..	1,32,699		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue.	..	259	259	..	..	..	259		
Leave and pension allowances ..	3,474	..	3,474	..	..	..	3,474		
Total ..	3,474	259	3,733	..	..	..	3,733		
Grand Total ..	1,36,173	259	1,36,432	..	..	..	1,36,432		

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BUCKINGHAM CANAL—*Canal Project.*

No. 2.—Capital Account for and to end of 1930-1931.

Heads of account.	DIRECT CHARGES.			Cost of construction as now estimated (construction estimate closed in March 1897).	Expenditure against closed estimate.
	Previous.	1930-1931.	Total.		
I. WORKS—	RS.	RS.	RS.	RS.	RS.
(2) Main Canals and Branches—					
A. Preliminary expenses.	10,642	..	10,642	10,642	10,642
B. Land	3,81,557	..	3,81,557	3,81,557	3,81,557
D. Regulators ..	1,230	..	1,230	1,230	1,230
E. Falls and weirs ..	3,182	..	3,182	3,182	3,182
F. River and hill torrent works.	11,020	..	11,020	11,020	11,020
F. (1) Other cross drainage works.	87,717	..	87,717	87,717	87,717
G. Bridges	2,48,996	..	2,48,996	2,48,996	2,48,996
H. Escapes	22,022	..	22,022	22,022	22,022
I. Navigation work..	12,74,994	..	12,74,994	12,74,994	12,74,994
K. Buildings	61,322	1,401	62,723	75,903	62,223
L. Earthwork	41,77,311	..	41,77,311	41,77,311	41,77,311
O. Miscellaneous ..	22,982	..	22,982	22,982	22,982
Total	63,02,975	1,401	63,04,376	63,17,556	63,03,876
(5) Special tools and plant ..	..	..	..	..	..
Provision for unforeseen works ..	..	..	..	..	..
Total, outlay	63,02,975	1,401	63,04,376	63,17,556	63,03,876
Old outlay	5,04,091	..	5,04,091	5,04,091	5,04,091
Total, Works	68,07,066	1,401	68,08,467	68,21,647	68,07,967
II. ESTABLISHMENT	16,10,638	329	16,10,967	16,14,968	16,10,829
III. TOOLS AND PLANT	1,80,992	8	1,81,000	1,81,269	1,80,995
Grand Total	85,98,696	1,738	86,00,434	86,17,884	85,99,791
V. Less—RECEIPTS ON CAPITAL ACCOUNT.	24,365	..	24,365	24,365	24,365
Net Total	85,74,331	1,738	85,76,069	85,93,519	85,75,426
Chargeable to 35. Protective Major works.	6,66,112	..	6,66,112	..	..
Chargeable to 43. Minor works and Navigation—Provincial.	78,97,097	..	78,97,097	..	..
Chargeable to 55-B. Navigation, etc.—2. Unproductive.	11,122	1,738	12,860	..	..
Total	85,74,331	1,738	85,76,069	..	..

BUCKINGHAM CANAL—*Canal Project*—cont.
No. 3.—Revenue Account for and to end of 1930-1931.

Receipts.	TOTAL.			Charges.	TOTAL.		
	Previous.	1930-1931.	Total.		Previous.	1930-1931.	Total.
	RS.	RS.	RS.		RS.	RS.	RS.
I. DIRECT RECEIPTS—				I.—EXTENSIONS AND IMPROVEMENTS—			
3. Sale of water	855	100	955	(1) Head works	1,81,662	3,947	1,85,609
5. Receipts from plantations ..	32,171	..	32,171	(2) Main canals and branches	352	..	352
6. Receipts from other canal produce.	71,427	..	71,427	(3) Distributaries	72	..	72
8. Navigation receipts	39,68,405	94,186	40,62,591	(4) Drainage and protective works	..	..	..
9. Rents of buildings	10,415	531	10,946	(5) Special tools and plant	..	..	..
10. Fines	1,369	..	1,369	Total ..	1,82,036	3,947	1,86,033
11. Miscellaneous	39,478	2,856	42,334	II.—MAINTENANCE AND REPAIRS—			
Recoveries of expenditure	..	424	424	(1) Head works	61,46,550	2,48,279	63,94,829
Deduct—Refunds	1,805	118	1,923	(2) Main canals and branches	..	..	..
Receipts for which classification is not obtainable	14,11,168	..	14,11,168	(3) Distributaries	1,089	..	1,089
Total revenue realized in the Public Works Department	55,33,483	97,979	56,31,462	(4) Drainage and protective works	3,125	..	3,125
Total, Direct receipts	55,33,483	97,979	56,31,462	(5) Special tools and plant	2,88,470	..	2,88,470
Total, Public Works and Civil Departments, Revenue	55,33,483	97,979	56,31,462	Add—Unclassifiable outlay	64,39,034	2,48,279	66,87,313
Net deficit, if any	23,92,150	2,13,190	36,05,340	Total ..	66,21,120	2,52,226	68,73,346
Total ..	89,25,633	3,11,169	92,36,802	IV. ESTABLISHMENT	18,92,018	55,131	19,47,149
				V. TOOLS AND PLANT	1,45,286	1,290	1,46,576
				VI. REFUNDS OF REVENUE	22,074	..	22,074
				Deduct—Recoveries on revenue account	4,115	..	4,115
				Total, Direct Charges	86,76,383	3,08,647	89,85,030
				Share of collection charges in the Civil department	2,49,250	2,522	2,51,772
				Indirect charges	89,25,633	3,11,169	92,36,802
				Total, Direct and Indirect Charges	..	..	..
				Balance, net revenue	89,25,633	3,11,169	92,36,802
				Grand Total ..	89,25,633	3,11,169	92,36,802

ADMINISTRATIVE ACCOUNTS
FOR THE YEAR 1930-1931.

MADRAS PRESIDENCY.

BUCKINGHAM CANAL—*Canal Project*—cont.
No. 4.—Interest Account for and to end of 1930-1931.

	Amount.		Amount.
	RS.		RS.
Total interest charges to end of 1929-1930	1,56,38,788	Net revenue realized to end of 1929-1930	— 33,92,150
Total interest charges for the year 1930-1931—		Net revenue realized during 1930-1931	— 2,13,190
Interest at 3.3252 per cent on the outlay to end of 1916-17 .. 2,83,243		Balance, net interest charges	1,95,30,477
Interest at 5.44 per cent on the outlay of Rs. 57,106 from 1917-18 to end of 1929-30 plus half the outlay during 1930-31. 3,106	2,86,349		
Total ..	1,59,25,137	Total ..	1,59,25,137

No. 5.—Account of Indirect Charges for and to end of 1930-1931.

Particulars.	Previous.	1930-1931.	Total.
	RS.	RS.	RS.
Capital—			
Capitalization of abatement of land revenue ..	2,62,365	..	2,62,365
Leave and pension allowances	2,26,866	..	2,26,866
Audit and accounts	91	14	105
Total ..	4,89,322	14	4,89,336
Revenue—			
Capitalization of abatement of land revenue ..	363	..	363
Leave and pension allowances	2,27,769	..	2,27,769
Audit and accounts	21,118	2,522	23,640
Total ..	2,49,250	2,522	2,51,772
Grand Total ..	7,38,572	2,536	7,41,108

BUCKINGHAM CANAL—Canal Project—cont.

No 6.—Statement comparing Charges to date with Sanctioned Estimates.

Particulars.	CHARGES AGAINST CLOSED SANCTIONS.			CURRENT SANCTIONS.			Total charges to date against old and current sanctions.	REMARKS.	
	Expenditure against construction estimate.	Expenditure against open canal sanction.	Total.	Charges to date.	Amount of sanctioned estimate.	Unspent balance of estimate.		G.O. No. and date.	Amount of estimate.
<i>Direct Charges.</i>	RS.	RS.	RS.	RS.	RS.	RS.	RS.		RS.
Works	66,72,338	1,35,629	68,07,967	500	13,680	13,180	68,08,467		13,680
Establishment	15,85,806	25,623	16,10,829	138	4,139	4,001	16,10,967		
Tools and plant	1,80,720	275	1,80,995	5	274	269	1,81,000		2,900
Suspense account	..	..	..	..	..	..	..		
Total ..	84,38,864	1,60,927	85,99,791	643	18,093	17,450	86,00,434		13,680
Less—Receipts on Capital Account ..	4,502	19,863	24,365	..	..	..	24,365		
Net Total ..	84,34,362	1,41,064	85,75,426	643	18,093	17,450	85,76,069		
<i>Indirect Charges.</i>									
Capitalized abatement of land revenue.	2,62,365	..	2,62,365	..	..	..	2,62,365		
Leave and pension allowances ..	2,23,608	3,258	2,26,866	..	..	..	2,26,866		
Audit and accounts	..	100	100	5	137	132	105		
Total ..	4,85,973	3,358	4,89,331	5	137	132	4,89,236		
Grand Total ..	89,20,335	1,44,422	90,64,757	648	18,230	17,582	90,65,405		

MADRAS,
20th October 1931.S. KRISHNA AYYAR,
Deputy Accountant-General.

